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SPECIFIC HEAT AND SPEED OF SOUND
DATA FOR IMPERFECT AIR

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and

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Engineering Support Facility

ARO, Inc.

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ARNOLD ENGINEERING DEVELOPMENT CENTER
AIR FORCE SYSTEMS COMMAND
UNITED STATES AIR FORCE

NOTICES

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FOREWORD

The authors wish to acknowledge Mr. F. C. Loper's assistance in developing the spline fit program for the IBM 7074 and Mr. J. Hilsenrath of the National Bureau of Standards for access to some unpublished calculations.
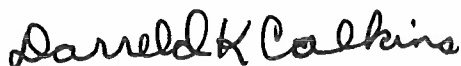
ABSTRACT
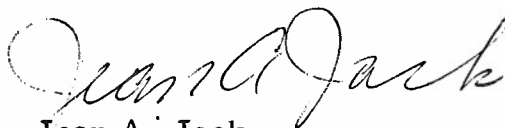
Specific heat and speed of sound data have been computed for imperfect air. The thermodynamic data included the effects of two-body intermolecular forces, and the results were obtained by numerical interpolation and differentiation of the recent data of Hilsenrath and Klein (AEDC-TDR-63-161). Comparisons with previous perfect gas calculations showed small effects in the isentropic exponent γ_E and dimensionless speed of sound a/a_a below one amagat and negligible effects on the specific heat data for all densities up to $\log \rho = 2.2$.

PUBLICATION REVIEW

This report has been reviewed and publication is approved.

Darreld K. Calkins
Major, USAF
AF Representative, VKF
DCS/Test

Jean A. Jack
Colonel, USAF
DCS/Test

CONTENTS

TABLE

ILLUSTRATIONS

NOMENCLATURE

a	Speed of sound, ft/sec
C_p/R	Dimensionless specific heat at constant pressure
C_v/R	Dimensionless specific heat at constant volume
E/RT	Dimensionless internal energy
H/RT	Dimensionless enthalpy
p	Pressure, atm
R	Gas constant
S/R	Dimensionless enthropy
T	Temperature, °K
Z	Compressibility factor, $p/\rho RT$
γ	Ratio of specific heats, C_p/C_v
γ_E	Isentropic exponent, $(\partial \log p / \partial \log \rho)_S$
ρ	Density, amagats
log	All logarithms are to the base 10

SUBSCRIPTS

a	Conditions at one atmosphere pressure and 273.15°K

USEFUL CONSTANTS

a_a = 1087.33 ft/sec = 0.3314193 mm/μsec or km/sec

P_a = 1 atm = 14.696 lbf/in.^{2} = 2116.224 lbf/ft^2

   = 1.013246 x 10^6 dynes/cm^2 = 760 mm Hg = 1.013246 x 10^5 newtons/m^2

R = 3091.694 ft^2/sec^2 °K = 1.98726 cal/mole °K = 6.860427 x 10^{-2} cal/gm °K or Btu/lbm °R

T_a = 273.15°K = 391.67 °R

Molecular Weight = 28.967 gm/mole

ρ_a = 2.505901 x 10^{-3} lbf-sec^2/ft^4 or slugs/ft^3 = 8.0624862 x 10^{-2} lbm/ft^3 = 1.2914889 kg/m^3 = 1.2914889 x 10^{-3} gm/cm^3

1.0 INTRODUCTION

For gas dynamic calculations at high temperature, gas properties are needed which take proper account of so-called real gas effects. Equilibrium gas properties for a perfect gas* mixture have been computed by numerous investigators in recent years (e.g., Refs. 1 through 7).

The National Bureau of Standards under delivery orders to the Arnold Engineering Development Center (AEDC), Air Force Systems Command (AFSC), has been a prime source of data for the thermodynamic properties of gases. Perfect gas data for argon-free air were published by Hilsenrath and Beckett (Ref. 6)[†] who considered air as a 16-component mixture. Later Hilsenrath, Klein, and Woolley (Ref. 7)[††] published perfect gas properties for a 28-component mixture. Even more recently Hilsenrath and Klein (Ref. 8)[‡‡] included the second virial coefficient to account for the effects of intermolecular forces which become important at high densities or pressures. In all these publications, $E/RT, H/RT, Z, \rho,$ and p were tabulated at constant temperature in the range from 1500 to 15,000°K.

Landis and Nilson (Ref. 9) computed specific heat and speed of sound data based on the 1959 air data, and some comparisons are given in Section 3.0 between their results and those of the present calculations. The procedure used for the present calculations was similar to the one used by Landis and Nilson and is described in detail in Section 2.0.

The data in tabular form require large storage areas when used in machine computations. For this reason empirical fits of the data are desirable. Grabau (Ref. 10) fitted the 1956 air data with equations for

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*The following terminology will be used in this report. An ideal gas will denote a gas obeying the equations $p = \rho RT$ and $h = C_pT$. A perfect gas will denote one obeying $p = Z\rho RT$ which includes dissociation and ionization neglecting intermolecular effects. An imperfect gas obeys $p = Z\rho RT$ but includes intermolecular (two-body interaction) forces. The term real gas is reserved for a gas under actual (experimental) conditions and is not subject to the theoretical approximations.

[†] These data will subsequently be referred to as the 1956 air data.

[††] These data will subsequently be referred to as the 1959 air data.

[‡‡] Hereinafter called 1963 air data.

Manuscript received April 1964.

$H\rho/p$, S/R, and $1/Z$ as functions of p and ρ. Recently, Lewis and Burgess (Ref. 11) developed empirical surface fits for the 1959 air data as well as some unpublished perfect gas nitrogen data of Hilsenrath. In that work $H/R, \rho, Z$, and a/a_a were given as functions of p and S. The speed of sound data were computed as described below, and a comparison with the results of Landis and Nilson indicated small differences.

The speed of sound data of this report together with H/R, ρ, and Z for the 1963 air data are geing fitted as functions of p and S, and these results will be published in the future by Lewis and Burgess.

2.0 CALCULATION PROCEDURE

The 1963 air data were interpolated at constant pressure in the range $\log p = -7$ (in intervals of 0.1) 4.0 and at constant entropy in the range $S/R = 23.0 \, (0.2) \, 133.0$ over the temperature range 1500 (100) 15,000°K. A four-pound Lagrange interpolation formula was used in both cases. A four-point pressure interpolated data were arranged in tables of the form $\phi = \phi \, (\log p; T, \log \rho, H/RT, Z, \log (E/R))^*$.

The constant entropy interpolated data were numerically differentiated using a two-point central difference formula to yield the isentropic exponent $\gamma_E = (\partial \log p / \partial \log \rho)_S$, and the speed of sound was calculated from $a = (\gamma_E ZRT)^{\frac{1}{2}}$. The constant entropy interpolated data were arranged in tables of the form $\phi = \phi \, (S/R; \log \rho, \log p, H/RT, \gamma_E, a/a_a, \log (E/R), Z)$ where the notation is similar to that used above.

The specific heat data were computed using the Landis and Nilson spline fit procedure from the original tables, i.e., $\phi = \phi \, (T; \log \rho, \log p, H/RT, E/RT, Z)$, and the constant pressure and entropy interpolated data as follows:

1. From the originally tabulated 1963 air data, the specific heat at constant volume was computed

$$C_v/R \equiv [\partial(E/R)/\partial T]_v = T[\partial(E/RT)/\partial T]_\rho + E/RT$$

2. From the constant pressure interpolated data, the specific heat at constant pressure was calculated

$$C_p/R \equiv [\partial(H/R)/\partial T]_p = T[\partial(H/RT)/\partial T]_p + H/RT$$

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*This is used to denote that for a given pressure and any one of the remaining quantities, all other thermodynamic properties can be determined by interpolation.

3. These data were placed in the original format, i.e., in terms of T and ρ, and the ratio $\gamma = C_p/C_v$ was taken.

4. The isentropic exponent γ_E (S/R; log ρ, T, ...) and the speed of sound a/a_a (S/R, log ρ, T, ...) data were interpolated again at constant density and tabulated in the form $\phi = \phi$ (T; log ρ, S/R, ...).

3.0 RESULTS AND DISCUSSION

The specific heat and speed of sound data based on the above described calculation procedure and the data of Hilsenrath and Klein (1963 air data) are given in the table, and the data in the range T = 2000 (2000) 14,000°K are shown in Figs. 1 through 5.

The spline fit procedure used to compute the specific heat data was tested using the 1959 air data, and the results were compared with Landis and Nilson. The choice of end restraints was the same as that used by Landis and Nilson[*], and the C_v/R results agreed within five in the fourth significant figure for T ≤ 10,000°K.

Above T = 10,000°K and for densities below one amagat, differences were found when the present results were compared with those of Landis and Nilson. A calculation was made at 14,200°K and log ρ = -5 using single and double precision arithmetic. The results are shown below:

Source	Single Precision		Double Precision	
	Slope	C_V/R	Slope	C_V/R
Present Calculations				
1963 Air Data	0.0018961	9.86019	0.0018955	9.86871
1959 Air Data		8.2511		
Landis and Nilson (Ref. 9)				
1959 Air Data		8.231[†]		

From these results the effects of arithmetic precision is much smaller than the difference between the tabulated 1963 and 1959 air data. The temperature interval above 10,400°K was increased from 100 to 200°K in the 1959 air tables, whereas the interval was maintained constant at 100°K throughout the 1963 air tables. The present calculations are therefore considered more accurate above 10,000°K than the previously available data.

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[*]As noted by Landis and Nilson (Ref. 9), the choice is arbitrary.

[†] The arithmetic precision used by Landis and Nilson is not known.

A further possible source of error was investigated when data* computed at specific values of T and S/R were compared with the present interpolated data. The comparison showed that the present data agreed within five significant figures at 2500°K where both sets of data were available.

From these comparisons it can be stated that the significant differences between the present results and those of Landis and Nilson at high temperature and low density are caused by differences in the tabulated 1959 and 1963 air data and not in the computation method or arithmetic precision. The interested reader can find further perfect gas comparisons in Refs. 9 and 12.

The imperfect gas effects on γ_E and a/a_a at 10,000°K are shown in Fig. 6. Note here that below one amagat the differences are negligible. The comparisons for the specific heat data are not shown since the differences are, in general, less than one percent over the entire density range.

4.0 CONCLUDING REMARKS

Specific heat and speed of sound data have been computed where imperfect gas effects were included in the thermodynamic data. At temperatures below 10,000°K and densities below one amagat, comparisons with previous calculations based on perfect gas properties indicate small differences, and for all densities in the same temperature range the effects on the specific heat data are small. Above 10,000°K the differences appear to be caused by the differences in the tabulated data. The present results are believed to be sufficiently accurate for most engineering calculations.

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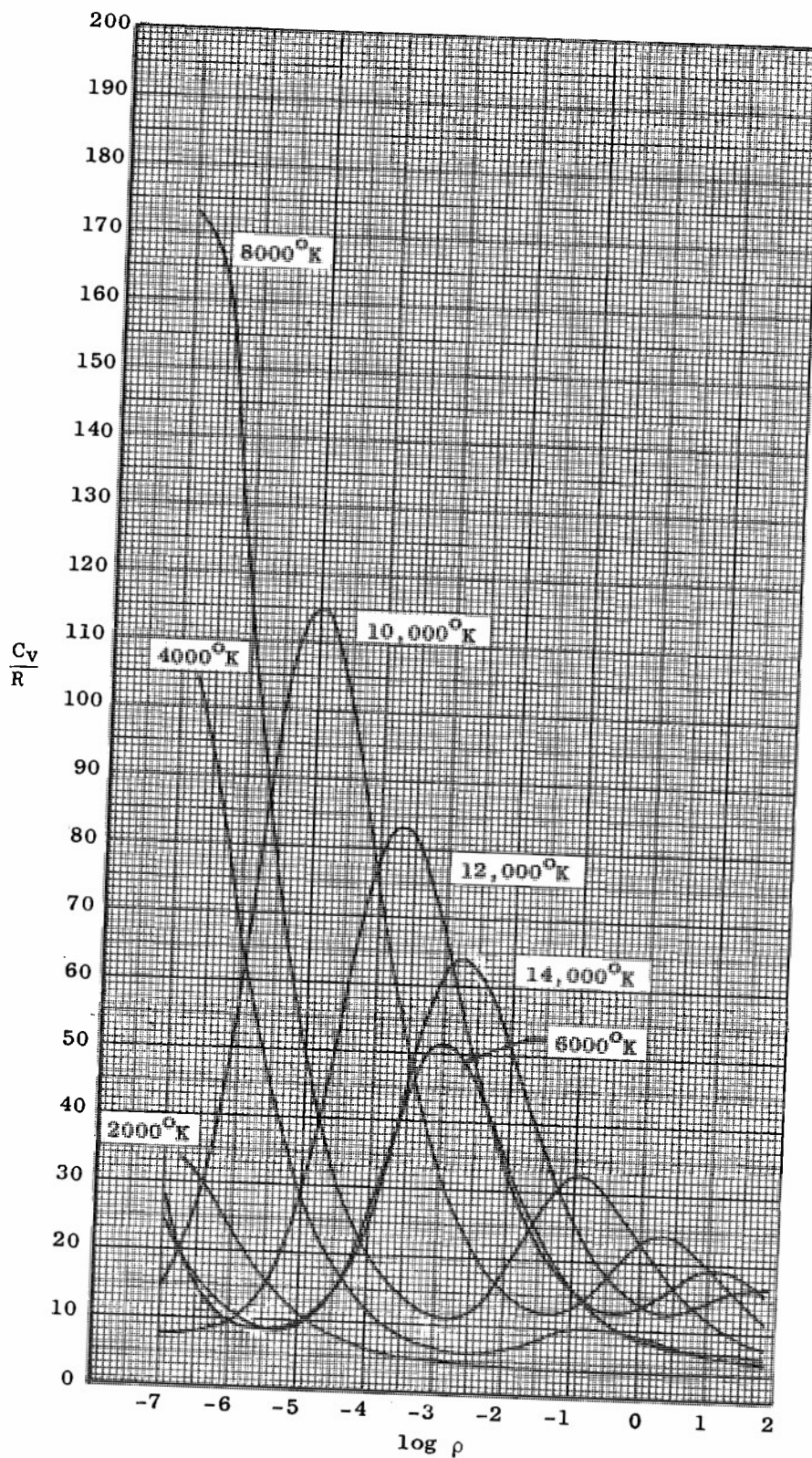
Fig. 1 C$_v$/R for Imperfect Air
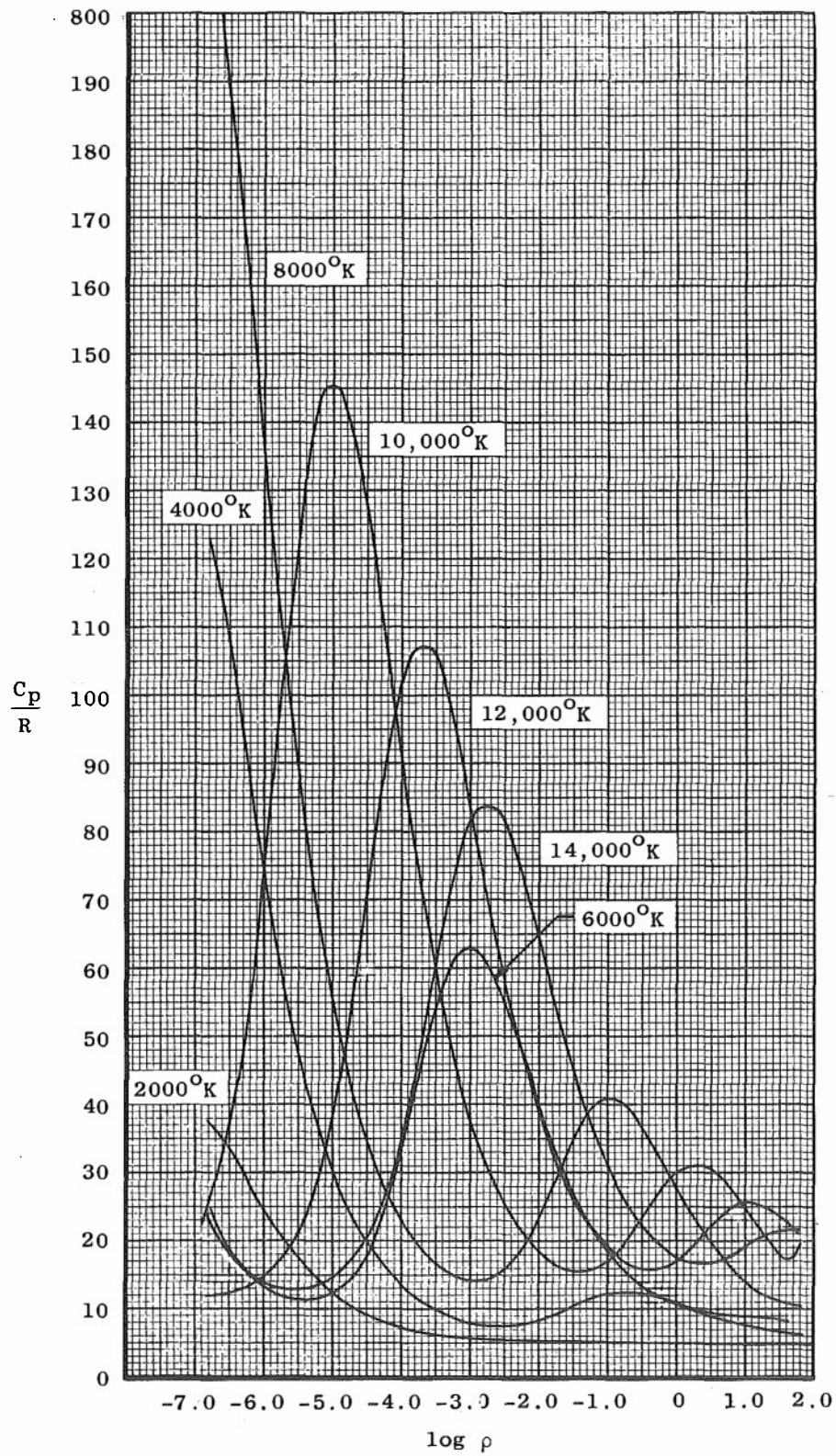
Fig. 2 C_p/R for Imperfect Air
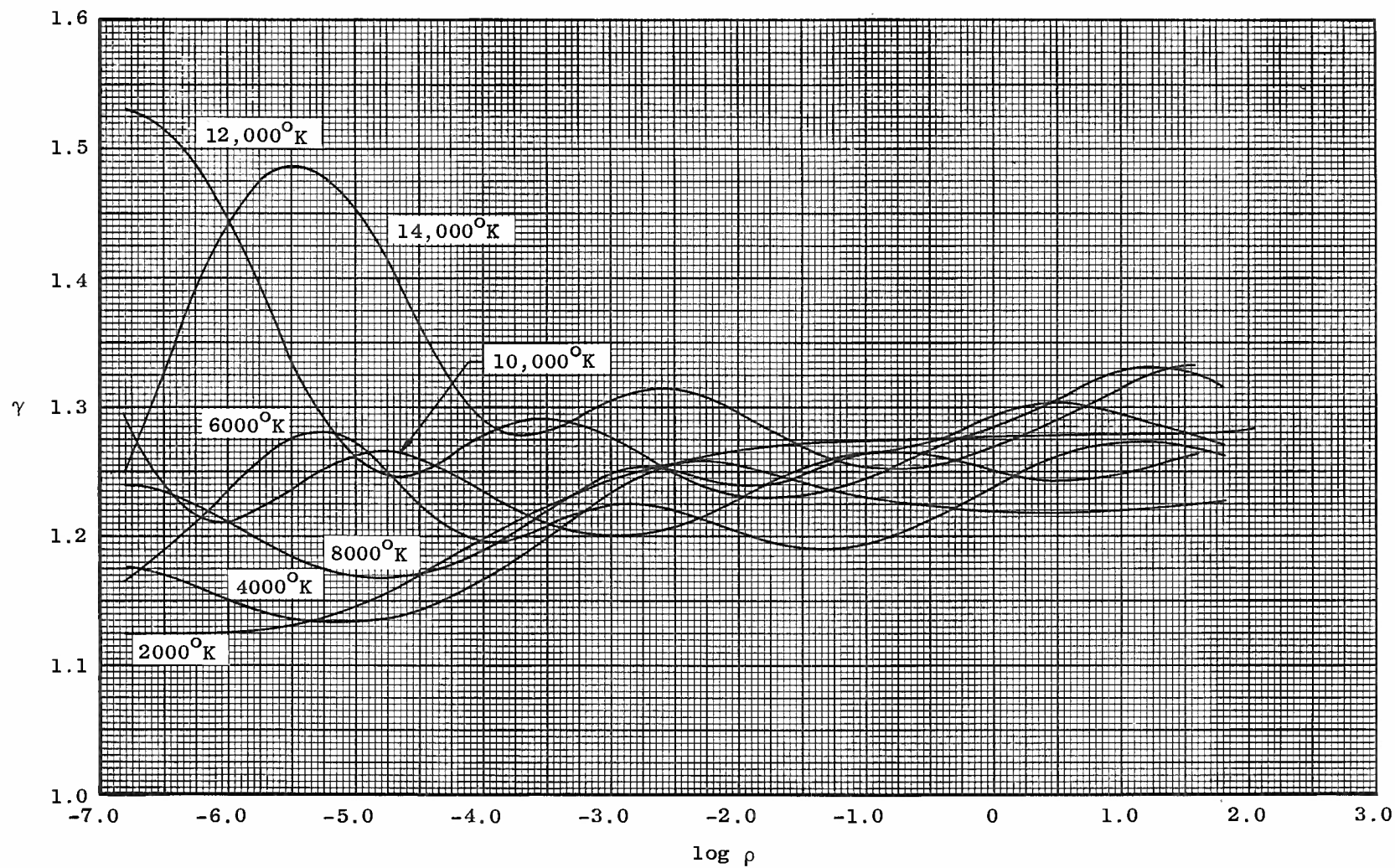
Fig. 3 γ for Imperfect Air
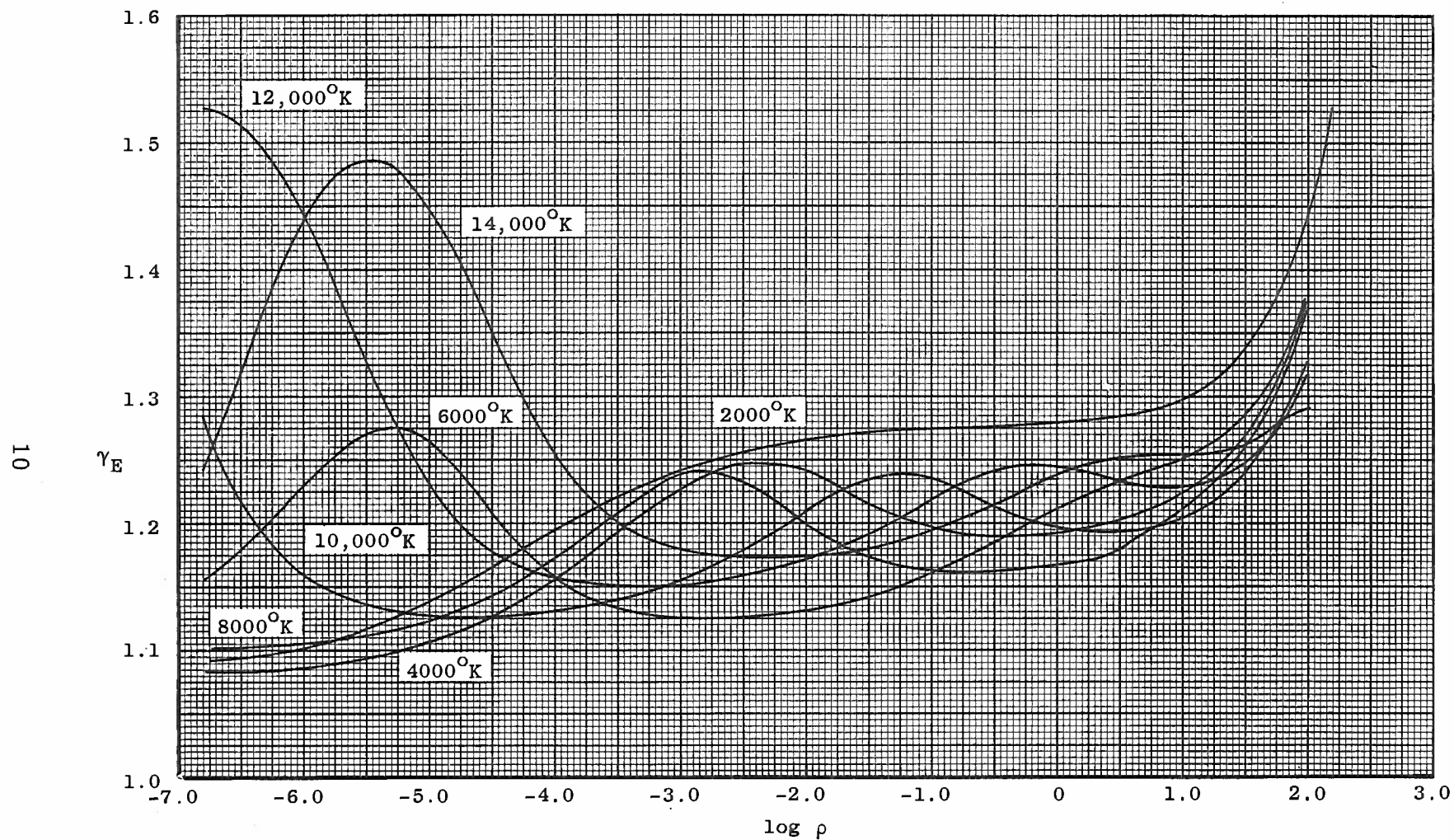
Fig. 4 γ_E for Imperfect Air

Fig. 5 a/a_a for Imperfect Air

a. γ_E
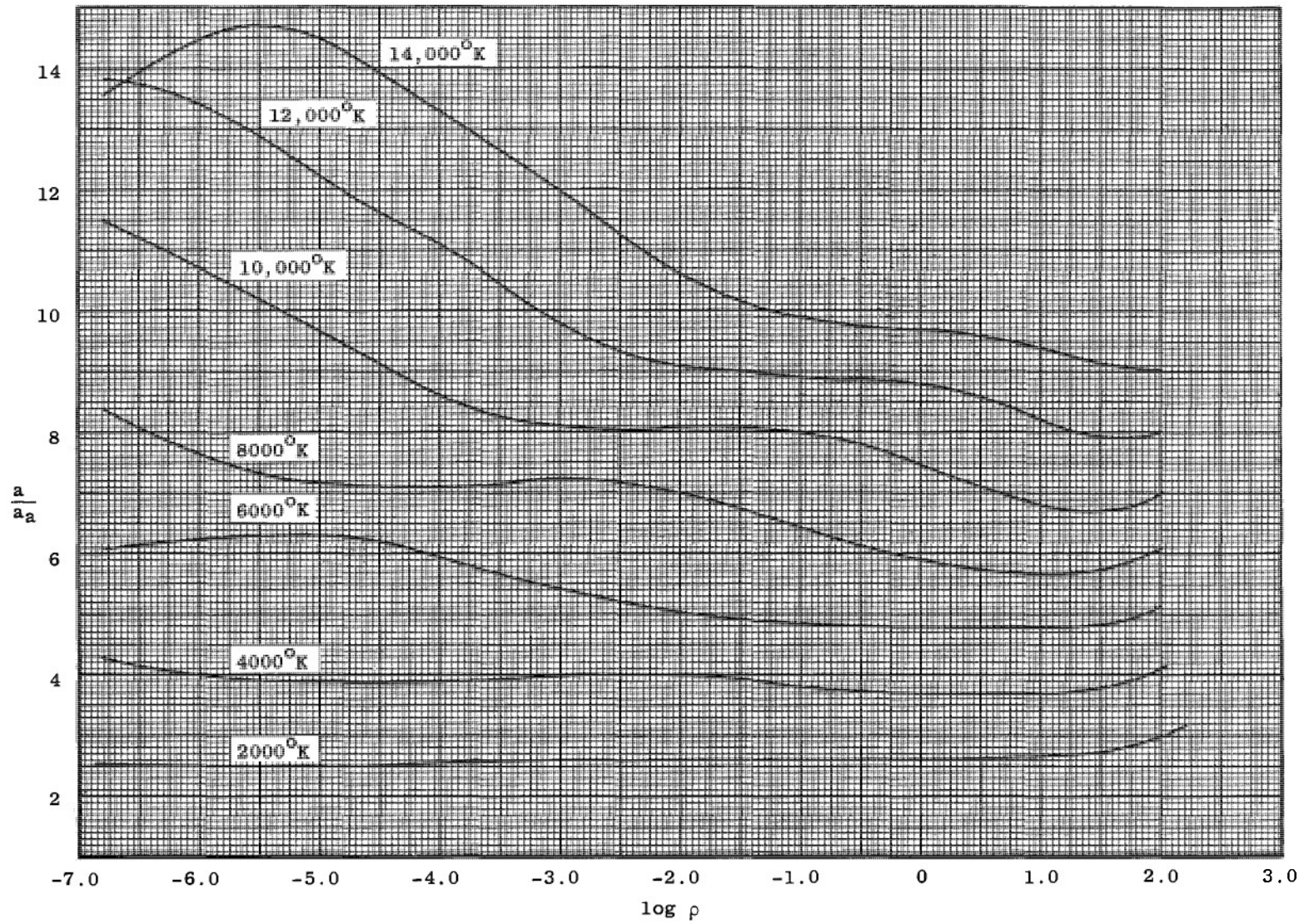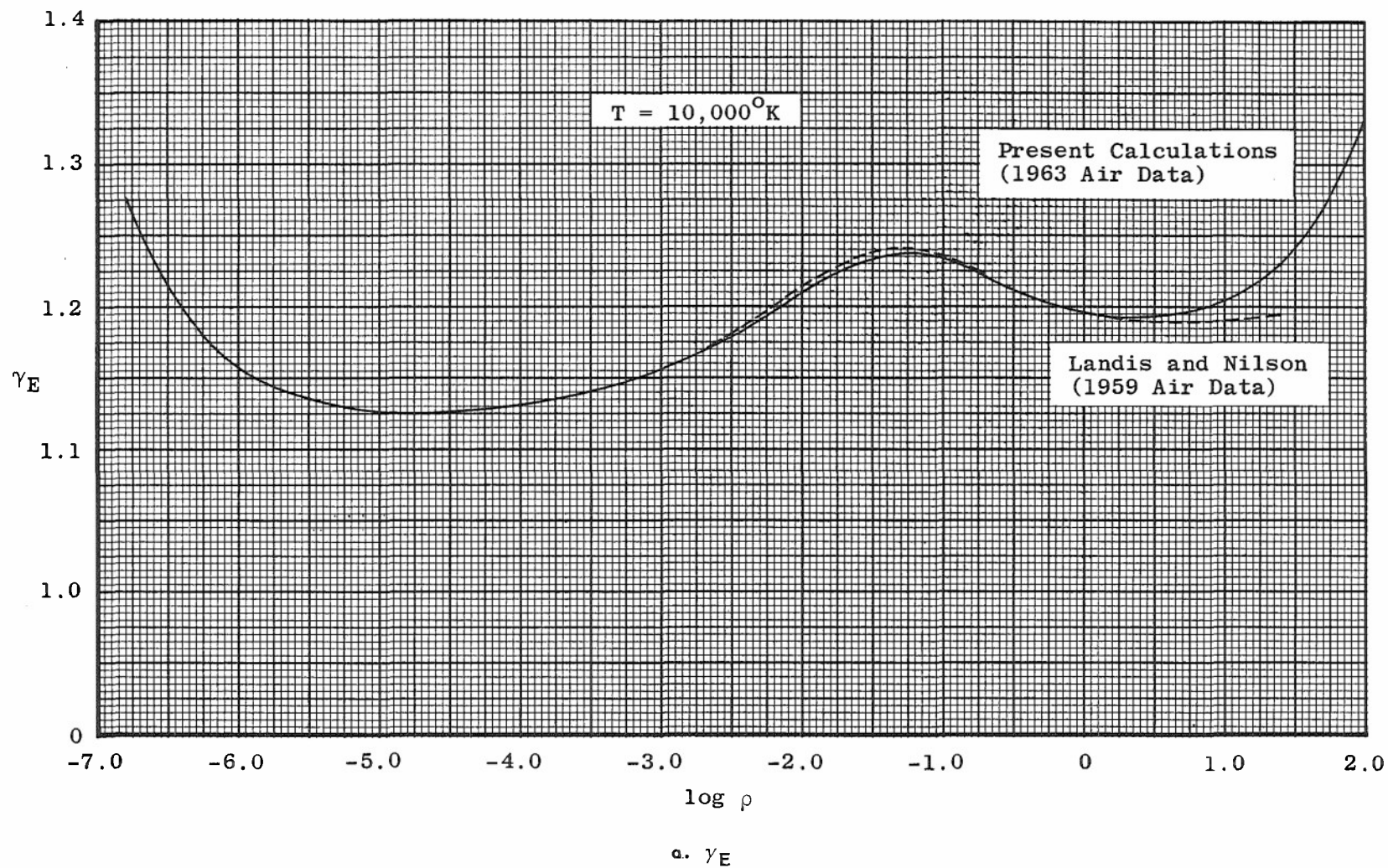
Fig. 6 Comparison Between Present Calculation and the Perfect Gas Results of
Landis and Nilson at 10,000°K

b. a/a_a
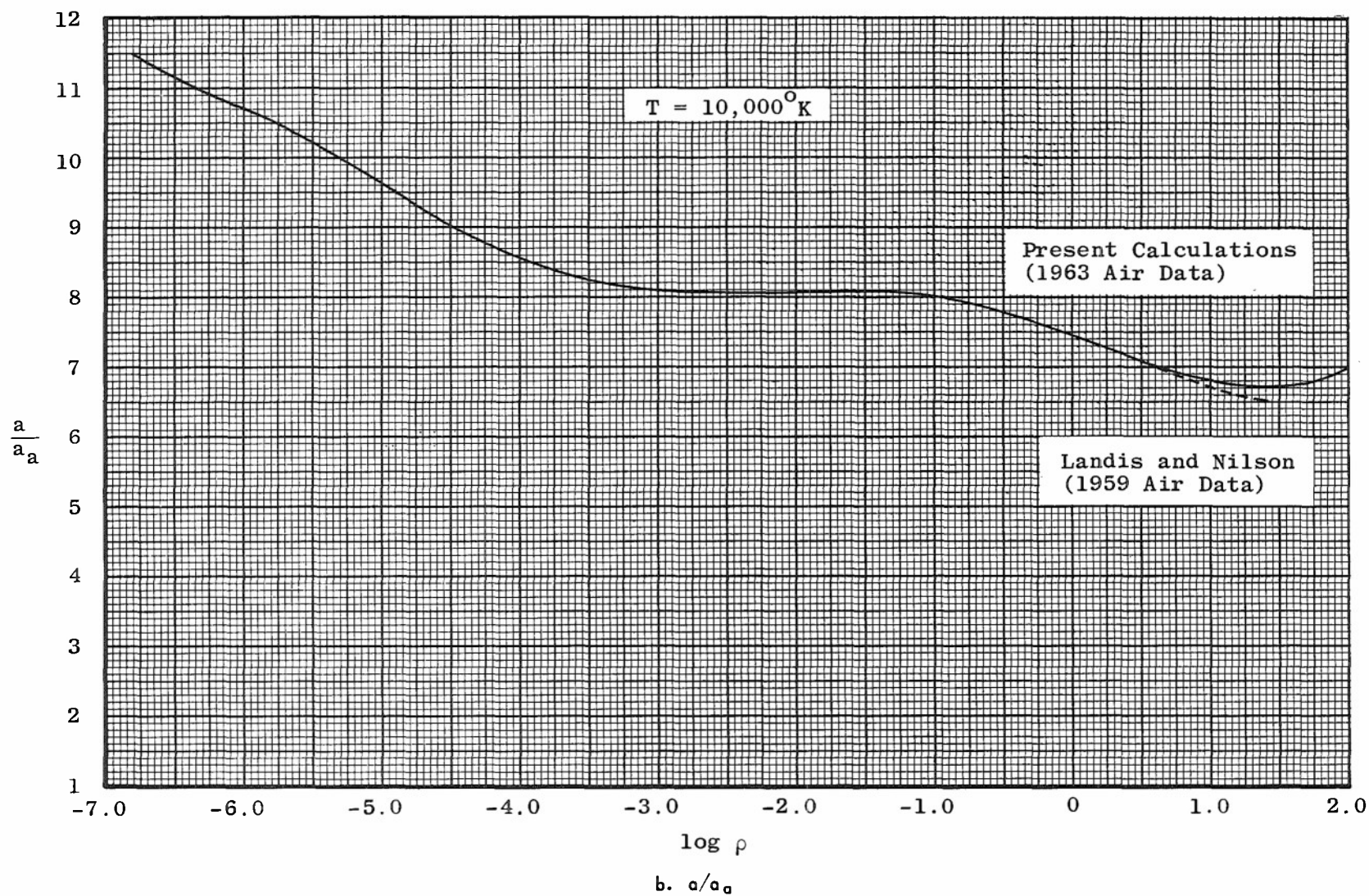
Fig. 6 Concluded

Table 1

T = 1500

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
-6.8	-6.05963	1.00098				1.231	2.198
-6.6	-5.85972	1.00078				1.241	2.208
-6.4	-5.65979	1.00062				1.251	2.216
-6.2	-5.45984	1.00049				1.260	2.223
-6.0	-5.25988	1.00039				1.267	2.229
-5.8	-5.05992	1.00031				1.273	2.235
-5.6	-4.85995	1.00025				1.278	2.239
-5.4	-4.65997	1.00020				1.283	2.243
-5.2	-4.45999	1.00016				1.286	2.246
-5.0	-4.26000	1.00012				1.289	2.249
-4.8	-4.06001	1.00010				1.291	2.251
-4.6	-3.86002	1.00008				1.293	2.252
-4.4	-3.66003	1.00006				1.295	2.254
-4.2	-3.46003	1.00005				1.296	2.255
-4.0	-3.26004	1.00004				1.297	2.256
-3.8	-3.06004	1.00003				1.298	2.256
-3.6	-2.86004	1.00002				1.299	2.257
-3.4	-2.66005	1.00002				1.299	2.257
-3.2	-2.46005	1.00002				1.300	2.258
-3.0	-2.26005	1.00001				1.300	2.258
-2.8	-2.06005	1.00001				1.300	2.258
-2.6	-1.86005	1.00001				1.300	2.259
-2.4	-1.66005	1.00001				1.301	2.259
-2.2	-1.46005	1.00001				1.301	2.259
-2.0	-1.26005	1.00002				1.301	2.259
-1.8	-1.06004	1.00002				1.301	2.259
-1.6	-.86004	1.00004				1.301	2.259
-1.4	-.66003	1.00006				1.301	2.259
-1.2	-.46002	1.00009				1.301	2.259
-1.0	-.26000	1.00014				1.301	2.259
-.8	-.05996	1.00022				1.301	2.260
-.6	.14010	1.00035				1.302	2.260
-.4	.34018	1.00055				1.302	2.260
-.2	.54032	1.00087				1.303	2.261
-.0	.74055	1.00138				1.303	2.262
.2	.94090	1.00220				1.304	2.264
.4	1.14146	1.00348				1.306	2.268
.6	1.34234	1.00553				1.310	2.273
.8	1.54374	1.00877				1.314	2.280
1.0	1.74594	1.01390				1.322	2.293
1.2	1.94941	1.02203				1.334	2.312
1.4	2.15486	1.03492				1.352	2.343
1.6	2.36335	1.05536				1.381	2.391
1.8	2.57648	1.08775				1.424	2.465
2.0	2.79650	1.13908				1.489	2.579

Table 1 Continued

T = 1600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-6.03056	1.00338				1.197	2.241
-6.6	-5.83086	1.00269				1.208	2.251
-6.4	-5.63110	1.00214				1.220	2.262
-6.2	-5.43129	1.00170				1.232	2.272
-6.0	-5.23144	1.00135				1.242	2.281
-5.8	-5.03156	1.00108				1.251	2.289
-5.6	-4.83165	1.00086				1.259	2.296
-5.4	-4.63173	1.00068				1.266	2.302
-5.2	-4.43179	1.00054				1.272	2.308
-5.0	-4.23184	1.00043				1.277	2.312
-4.8	-4.03188	1.00034				1.281	2.315
-4.6	-3.83191	1.00027				1.284	2.318
-4.4	-3.63193	1.00022				1.287	2.321
-4.2	-3.43195	1.00017				1.289	2.323
-4.0	-3.23197	1.00014				1.291	2.324
-3.8	-3.03198	1.00011				1.293	2.326
-3.6	-2.83199	1.00009				1.294	2.327
-3.4	-2.63200	1.00007				1.295	2.328
-3.2	-2.43200	1.00005				1.296	2.328
-3.0	-2.23201	1.00004				1.296	2.329
-2.8	-2.03201	1.00004				1.297	2.329
-2.6	-1.83201	1.00003				1.297	2.330
-2.4	-1.63201	1.00003				1.297	2.330
-2.2	-1.43202	1.00003				1.298	2.330
-2.0	-1.23201	1.00003				1.298	2.330
-1.8	-1.03201	1.00003				1.298	2.330
-1.6	-.83201	1.00004				1.298	2.331
-1.4	-.63200	1.00006				1.298	2.331
-1.2	-.43199	1.00009				1.298	2.331
-1.0	-.23196	1.00014				1.299	2.331
-.8	-.03193	1.00022				1.299	2.331
-.6	.16813	1.00035				1.299	2.332
-.4	.36821	1.00055				1.299	2.332
-.2	.56836	1.00088				1.300	2.333
-.0	.76858	1.00140				1.300	2.334
.2	.96893	1.00221				1.302	2.336
.4	1.16950	1.00351				1.303	2.339
.6	1.37039	1.00557				1.306	2.344
.8	1.57180	1.00883				1.310	2.352
1.0	1.77402	1.01401				1.317	2.364
1.2	1.97752	1.02221				1.328	2.383
1.4	2.18301	1.03522				1.345	2.413
1.6	2.39157	1.05583				1.371	2.461
1.8	2.60480	1.08849				1.410	2.534
2.0	2.82498	1.14025				1.470	2.648
2.2	3.05509	1.22214				1.554	2.819

Table 1 Continued

T = 1700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-6.00140	1.00994				1.144	2.266
-6.6	-5.80226	1.00794				1.155	2.275
-6.4	-5.60296	1.00633				1.167	2.285
-6.2	-5.40351	1.00505				1.180	2.296
-6.0	-5.20396	1.00402				1.193	2.307
-5.8	-5.00431	1.00320				1.205	2.319
-5.6	-4.80459	1.00254				1.217	2.329
-5.4	-4.60482	1.00202				1.228	2.339
-5.2	-4.40500	1.00161				1.238	2.348
-5.0	-4.20514	1.00128				1.247	2.356
-4.8	-4.00526	1.00102				1.255	2.363
-4.6	-3.80535	1.00081				1.262	2.369
-4.4	-3.60542	1.00064				1.268	2.374
-4.2	-3.40548	1.00051				1.272	2.379
-4.0	-3.20552	1.00041				1.276	2.382
-3.8	-3.00556	1.00032				1.280	2.385
-3.6	-2.80559	1.00026				1.282	2.388
-3.4	-2.60561	1.00020				1.284	2.390
-3.2	-2.40563	1.00016				1.286	2.391
-3.0	-2.20564	1.00013				1.288	2.393
-2.8	-2.00565	1.00010				1.289	2.394
-2.6	-1.80566	1.00008				1.290	2.394
-2.4	-1.60567	1.00007				1.290	2.395
-2.2	-1.40567	1.00006				1.291	2.396
-2.0	-1.20567	1.00005				1.292	2.396
-1.8	-1.00567	1.00005				1.292	2.396
-1.6	-.80567	1.00006				1.292	2.397
-1.4	-.60567	1.00007				1.292	2.397
-1.2	-.40565	1.00010				1.293	2.397
-1.0	-.20563	1.00015				1.293	2.398
-.8	-.00560	1.00023				1.293	2.398
-.6	.19446	1.00036				1.293	2.398
-.4	.39455	1.00056				1.294	2.399
-.2	.59469	1.00089				1.294	2.400
-.0	.79491	1.00141				1.295	2.401
.2	.99527	1.00223				1.296	2.403
.4	1.19584	1.00354				1.298	2.406
.6	1.39673	1.00561				1.301	2.411
.8	1.59815	1.00888				1.305	2.419
1.0	1.80039	1.01410				1.312	2.432
1.2	2.00391	1.02236				1.322	2.452
1.4	2.20944	1.03545				1.339	2.483
1.6	2.41805	1.05620				1.365	2.532
1.8	2.63136	1.08907				1.404	2.607
2.0	2.85166	1.14115				1.463	2.724
2.2	3.08192	1.22355				1.546	2.900

Table 1 Continued

T = 1800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.97005	1.02523	18.238	16.278	1.120	1.103	2.307
-6.6	-5.77214	1.02031	15.666	13.916	1.126	1.118	2.317
-6.4	-5.57385	1.01630	13.539	11.948	1.133	1.127	2.322
-6.2	-5.37524	1.01306	11.792	10.323	1.142	1.137	2.328
-6.0	-5.17636	1.01044	10.365	8.992	1.153	1.148	2.337
-5.8	-4.97727	1.00834	9.205	7.907	1.164	1.160	2.346
-5.6	-4.77799	1.00665	8.264	7.027	1.176	1.172	2.356
-5.4	-4.57858	1.00530	7.505	6.317	1.188	1.184	2.367
-5.2	-4.37904	1.00422	6.895	5.745	1.200	1.197	2.378
-5.0	-4.17942	1.00336	6.404	5.285	1.212	1.208	2.389
-4.8	-3.97971	1.00267	6.012	4.917	1.223	1.220	2.399
-4.6	-3.77995	1.00213	5.698	4.622	1.233	1.230	2.408
-4.4	-3.58014	1.00169	5.447	4.387	1.242	1.239	2.417
-4.2	-3.38029	1.00134	5.247	4.200	1.249	1.247	2.424
-4.0	-3.18041	1.00107	5.087	4.050	1.256	1.254	2.431
-3.8	-2.98050	1.00085	4.961	3.931	1.262	1.260	2.437
-3.6	-2.78058	1.00068	4.859	3.836	1.267	1.265	2.441
-3.4	-2.58064	1.00054	4.779	3.760	1.271	1.270	2.445
-3.2	-2.38069	1.00043	4.715	3.700	1.274	1.273	2.449
-3.0	-2.18073	1.00034	4.664	3.652	1.277	1.276	2.451
-2.8	-1.98076	1.00027	4.624	3.614	1.279	1.278	2.453
-2.6	-1.78078	1.00022	4.592	3.584	1.281	1.280	2.455
-2.4	-1.58080	1.00017	4.566	3.567	1.280	1.282	2.457
-2.2	-1.38081	1.00014	4.546	3.546	1.282	1.283	2.458
-2.0	-1.18082	1.00012	4.530	3.514	1.289	1.284	2.459
-1.8	-.98083	1.00011	4.517	3.514	1.285	1.285	2.459
-1.6	-.78083	1.00010	4.507	3.505	1.286	1.286	2.460
-1.4	-.58083	1.00011	4.499	3.497	1.286	1.286	2.461
-1.2	-.38082	1.00013	4.492	3.491	1.287	1.287	2.461
-1.0	-.18080	1.00017	4.487	3.486	1.287	1.287	2.461
-.8	.01923	1.00025	4.483	3.482	1.287	1.287	2.462
-.6	.21929	1.00037	4.480	3.479	1.288	1.288	2.462
-.4	.41938	1.00057	4.478	3.477	1.288	1.288	2.463
-.2	.61952	1.00090	4.476	3.475	1.288	1.289	2.464
-.0	.81974	1.00142	4.474	3.474	1.288	1.290	2.465
.2	1.02010	1.00224	4.473	3.473	1.288	1.291	2.468
.4	1.22067	1.00355	4.473	3.472	1.288	1.292	2.471
.6	1.42157	1.00564	4.473	3.472	1.288	1.295	2.476
.8	1.62299	1.00893	4.474	3.472	1.288	1.300	2.484
1.0	1.82524	1.01417	4.475	3.473	1.289	1.306	2.497
1.2	2.02878	1.02247	4.479	3.475	1.289	1.317	2.518
1.4	2.23433	1.03563	4.484	3.478	1.289	1.334	2.550
1.6	2.44299	1.05648	4.493	3.482	1.290	1.359	2.600
1.8	2.65636	1.08952	4.510	3.490	1.292	1.398	2.678
2.0	2.87675	1.14185	4.537	3.502	1.296	1.456	2.797
2.2	3.10713	1.22463	4.585	3.522	1.302	1.538	2.978

Table 1 Continued

T = 1900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.93414	1.05499	29.407	26.249	1.120	1.093	2.393
-6.6	-5.73825	1.04507	25.553	22.808	1.120	1.098	2.388
-6.4	-5.54173	1.03671	22.034	19.652	1.121	1.104	2.384
-6.2	-5.34466	1.02975	18.956	16.868	1.124	1.110	2.383
-6.0	-5.14709	1.02401	16.331	14.476	1.128	1.118	2.385
-5.8	-4.94908	1.01931	14.131	12.455	1.135	1.126	2.388
-5.6	-4.75071	1.01550	12.308	10.771	1.143	1.136	2.394
-5.4	-4.55204	1.01241	10.808	9.382	1.152	1.146	2.401
-5.2	-4.35311	1.00992	9.582	8.243	1.162	1.158	2.410
-5.0	-4.15397	1.00792	8.586	7.317	1.173	1.169	2.420
-4.8	-3.95466	1.00632	7.780	6.566	1.185	1.181	2.430
-4.6	-3.75521	1.00503	7.131	5.961	1.196	1.193	2.441
-4.4	-3.55566	1.00401	6.608	5.474	1.207	1.205	2.451
-4.2	-3.35601	1.00319	6.190	5.083	1.218	1.215	2.461
-4.0	-3.15629	1.00254	5.855	4.770	1.227	1.225	2.471
-3.8	-2.95652	1.00202	5.587	4.520	1.236	1.234	2.479
-3.6	-2.75670	1.00161	5.374	4.320	1.244	1.242	2.487
-3.4	-2.55684	1.00128	5.203	4.161	1.251	1.249	2.493
-3.2	-2.35695	1.00101	5.068	4.034	1.256	1.255	2.499
-3.0	-2.15704	1.00081	4.960	3.933	1.261	1.261	2.504
-2.8	-1.95711	1.00064	4.874	3.853	1.265	1.265	2.508
-2.6	-1.75717	1.00051	4.805	3.788	1.268	1.268	2.511
-2.4	-1.55722	1.00041	4.751	3.736	1.272	1.271	2.514
-2.2	-1.35725	1.00033	4.708	3.696	1.274	1.273	2.516
-2.0	-1.15728	1.00027	4.673	3.668	1.274	1.275	2.518
-1.8	-.95730	1.00022	4.646	3.639	1.277	1.277	2.519
-1.6	-.75731	1.00019	4.624	3.619	1.278	1.278	2.520
-1.4	-.55731	1.00018	4.607	3.603	1.279	1.279	2.521
-1.2	-.35731	1.00019	4.593	3.590	1.279	1.280	2.522
-1.0	-.15730	1.00022	4.582	3.580	1.280	1.281	2.523
-.8	.04273	1.00028	4.574	3.572	1.281	1.281	2.523
-.6	.24278	1.00040	4.567	3.565	1.281	1.282	2.524
-.4	.44287	1.00060	4.562	3.560	1.281	1.282	2.525
-.2	.64301	1.00092	4.557	3.556	1.281	1.283	2.526
-.0	.84323	1.00144	4.554	3.553	1.282	1.284	2.528
.2	1.04359	1.00226	4.552	3.551	1.282	1.285	2.530
.4	1.24416	1.00357	4.550	3.549	1.282	1.287	2.533
.6	1.44506	1.00566	4.549	3.548	1.282	1.290	2.539
.8	1.64649	1.00898	4.549	3.548	1.282	1.294	2.547
1.0	1.84874	1.01423	4.550	3.548	1.282	1.301	2.560
1.2	2.05230	1.02255	4.553	3.549	1.283	1.312	2.581
1.4	2.25787	1.03576	4.557	3.552	1.283	1.328	2.614
1.6	2.46656	1.05669	4.566	3.556	1.284	1.354	2.666
1.8	2.67998	1.08986	4.581	3.563	1.286	1.392	2.746
2.0	2.90043	1.14238	4.606	3.575	1.288	1.450	2.868
2.2	3.13090	1.22543	4.652	3.595	1.294	1.531	3.053

Table 1 Continued

T = 2000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.89354	1.10047	37.420	33.307	1.123	1.093	2.508
-6.6	-5.69958	1.08526	35.029	31.149	1.125	1.092	2.490
-6.4	-5.50515	1.07144	31.838	28.299	1.125	1.094	2.476
-6.2	-5.31012	1.05923	28.298	25.154	1.125	1.098	2.466
-6.0	-5.11447	1.04869	24.773	22.020	1.125	1.102	2.458
-5.8	-4.91819	1.03975	21.499	19.094	1.126	1.107	2.454
-5.6	-4.72132	1.03228	18.593	16.475	1.129	1.113	2.452
-5.4	-4.52393	1.02609	16.087	14.200	1.133	1.121	2.452
-5.2	-4.32609	1.02101	13.967	12.264	1.139	1.129	2.456
-5.0	-4.12785	1.01688	12.198	10.640	1.146	1.139	2.461
-4.8	-3.92928	1.01352	10.737	9.293	1.155	1.149	2.468
-4.6	-3.73044	1.01082	9.539	8.187	1.165	1.160	2.476
-4.4	-3.53138	1.00864	8.564	7.285	1.176	1.171	2.485
-4.2	-3.33213	1.00689	7.774	6.552	1.187	1.182	2.495
-4.0	-3.13274	1.00549	7.137	5.961	1.197	1.194	2.506
-3.8	-2.93322	1.00438	6.624	5.484	1.208	1.205	2.516
-3.6	-2.73361	1.00348	6.213	5.102	1.218	1.215	2.525
-3.4	-2.53391	1.00277	5.883	4.796	1.227	1.225	2.534
-3.2	-2.33416	1.00221	5.620	4.551	1.235	1.233	2.542
-3.0	-2.13435	1.00175	5.410	4.355	1.242	1.241	2.549
-2.8	-1.93451	1.00140	5.243	4.199	1.249	1.247	2.556
-2.6	-1.73463	1.00111	5.109	4.074	1.254	1.253	2.561
-2.4	-1.53473	1.00089	5.003	3.975	1.258	1.257	2.566
-2.2	-1.33481	1.00071	4.918	3.897	1.262	1.261	2.569
-2.0	-1.13487	1.00057	4.851	3.833	1.266	1.265	2.572
-1.8	-.93492	1.00046	4.798	3.784	1.268	1.267	2.575
-1.6	-.73495	1.00038	4.755	3.744	1.270	1.270	2.577
-1.4	-.53497	1.00033	4.721	3.713	1.272	1.271	2.579
-1.2	-.33498	1.00031	4.694	3.687	1.273	1.273	2.580
-1.0	-.13498	1.00031	4.673	3.668	1.274	1.274	2.582
-.8	.06504	1.00036	4.656	3.652	1.275	1.275	2.583
-.6	.26508	1.00046	4.643	3.639	1.276	1.276	2.584
-.4	.46516	1.00065	4.632	3.629	1.276	1.277	2.585
-.2	.66530	1.00096	4.624	3.621	1.277	1.278	2.586
-.0	.86552	1.00147	4.617	3.615	1.277	1.279	2.588
.2	1.06588	1.00229	4.612	3.611	1.277	1.280	2.590
.4	1.26644	1.00360	4.608	3.607	1.278	1.282	2.594
.6	1.46735	1.00569	4.606	3.604	1.278	1.285	2.599
.8	1.66878	1.00901	4.604	3.603	1.278	1.289	2.608
1.0	1.87104	1.01428	4.604	3.602	1.278	1.296	2.622
1.2	2.07460	1.02262	4.605	3.602	1.278	1.307	2.643
1.4	2.28019	1.03586	4.609	3.604	1.279	1.323	2.677
1.6	2.48890	1.05685	4.616	3.608	1.279	1.348	2.730
1.8	2.70236	1.09011	4.629	3.615	1.281	1.387	2.812
2.0	2.92285	1.14277	4.653	3.626	1.283	1.443	2.937
2.2	3.15338	1.22601	4.697	3.645	1.289	1.524	3.126

Table 1 Continued

T = 2100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.85338	1.14959	33.025	29.214	1.130	1.105	2.641
-6.6	-5.65938	1.13383	35.029	31.034	1.129	1.097	2.613
-6.4	-5.46570	1.11745	35.490	31.444	1.129	1.096	2.593
-6.2	-5.27202	1.10129	34.492	30.542	1.129	1.096	2.574
-6.0	-5.07808	1.08604	32.342	28.624	1.130	1.097	2.558
-5.8	-4.88367	1.07214	29.462	26.074	1.130	1.099	2.544
-5.6	-4.68868	1.05986	26.268	23.252	1.130	1.103	2.533
-5.4	-4.49305	1.04923	23.087	20.432	1.130	1.107	2.526
-5.2	-4.29681	1.04021	20.126	17.790	1.131	1.112	2.521
-5.0	-4.09997	1.03266	17.487	15.418	1.134	1.119	2.519
-4.8	-3.90261	1.02641	15.203	13.351	1.139	1.126	2.520
-4.6	-3.70479	1.02127	13.265	11.587	1.145	1.135	2.523
-4.4	-3.50657	1.01709	11.644	10.105	1.152	1.144	2.528
-4.2	-3.30802	1.01370	10.303	8.875	1.161	1.154	2.535
-4.0	-3.10919	1.01096	9.204	7.864	1.170	1.165	2.543
-3.8	-2.91014	1.00875	8.309	7.039	1.180	1.176	2.552
-3.6	-2.71090	1.00698	7.583	6.369	1.191	1.187	2.562
-3.4	-2.51152	1.00557	6.998	5.828	1.201	1.198	2.572
-3.2	-2.31201	1.00443	6.527	5.392	1.210	1.208	2.581
-3.0	-2.11240	1.00353	6.149	5.042	1.219	1.217	2.590
-2.8	-1.91271	1.00281	5.847	4.762	1.228	1.226	2.598
-2.6	-1.71296	1.00224	5.605	4.538	1.235	1.234	2.606
-2.4	-1.51315	1.00178	5.412	4.359	1.242	1.241	2.612
-2.2	-1.31331	1.00142	5.258	4.216	1.247	1.246	2.618
-2.0	-1.11343	1.00114	5.136	4.102	1.252	1.251	2.623
-1.8	-.91353	1.00091	5.038	4.011	1.256	1.256	2.627
-1.6	-.71360	1.00074	4.960	3.939	1.259	1.259	2.630
-1.4	-.51366	1.00062	4.899	3.882	1.262	1.262	2.633
-1.2	-.31370	1.00053	4.849	3.836	1.264	1.264	2.636
-1.0	-.11371	1.00049	4.810	3.800	1.266	1.266	2.638
-.8	.08629	1.00050	4.779	3.771	1.267	1.268	2.639
-.6	.28632	1.00057	4.755	3.748	1.269	1.269	2.641
-.4	.48639	1.00074	4.735	3.730	1.270	1.271	2.642
-.2	.68652	1.00103	4.720	3.716	1.270	1.272	2.644
-.0	.88674	1.00153	4.707	3.704	1.271	1.273	2.646
.2	1.08709	1.00234	4.698	3.695	1.271	1.275	2.649
.4	1.28765	1.00364	4.690	3.688	1.272	1.277	2.653
.6	1.48855	1.00573	4.685	3.683	1.272	1.280	2.658
.8	1.68998	1.00905	4.681	3.679	1.272	1.284	2.667
1.0	1.89225	1.01431	4.679	3.677	1.273	1.291	2.682
1.2	2.09582	1.02268	4.678	3.676	1.273	1.302	2.704
1.4	2.30141	1.03595	4.680	3.677	1.273	1.318	2.738
1.6	2.51014	1.05696	4.686	3.679	1.274	1.343	2.792
1.8	2.72362	1.09029	4.698	3.685	1.275	1.381	2.875
2.0	2.94415	1.14305	4.720	3.696	1.277	1.437	3.004
2.2	3.17471	1.22641	4.761	3.714	1.282	1.517	3.196

21

Table 1 Continued

T = 2200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.82053	1.18357	19.967	17.375	1.149	1.142	2.789
-6.6	-5.62432	1.17328	24.240	21.211	1.143	1.115	2.744
-6.4	-5.42904	1.16061	28.096	24.678	1.138	1.108	2.720
-6.2	-5.23456	1.14596	30.985	27.277	1.136	1.104	2.698
-6.0	-5.04064	1.13002	32.537	28.668	1.135	1.101	2.676
-5.8	-4.84697	1.11365	32.641	28.761	1.135	1.101	2.655
-5.6	-4.65325	1.09768	31.448	27.704	1.135	1.101	2.637
-5.4	-4.45921	1.08272	29.293	25.806	1.135	1.103	2.621
-5.2	-4.26467	1.06920	26.579	23.421	1.135	1.105	2.607
-5.0	-4.06953	1.05730	23.669	20.858	1.135	1.109	2.597
-4.8	-3.87376	1.04705	20.826	18.341	1.135	1.114	2.590
-4.6	-3.67737	1.03838	18.207	16.006	1.137	1.119	2.586
-4.4	-3.48041	1.03114	15.887	13.923	1.141	1.126	2.585
-4.2	-3.28293	1.02516	13.885	12.116	1.146	1.134	2.586
-4.0	-3.08502	1.02025	12.191	10.578	1.152	1.143	2.590
-3.8	-2.88672	1.01626	10.777	9.290	1.160	1.152	2.595
-3.6	-2.68810	1.01303	9.610	8.222	1.169	1.162	2.602
-3.4	-2.48922	1.01042	8.654	7.347	1.178	1.173	2.611
-3.2	-2.29013	1.00832	7.877	6.633	1.188	1.183	2.620
-3.0	-2.09085	1.00664	7.247	6.054	1.197	1.194	2.629
-2.8	-1.89143	1.00529	6.740	5.587	1.206	1.204	2.638
-2.6	-1.69190	1.00422	6.332	5.210	1.215	1.213	2.647
-2.4	-1.49227	1.00336	6.005	4.909	1.223	1.222	2.655
-2.2	-1.29256	1.00268	5.743	4.667	1.231	1.229	2.663
-2.0	-1.09280	1.00213	5.535	4.474	1.237	1.236	2.669
-1.8	-.89298	1.00171	5.368	4.320	1.243	1.242	2.675
-1.6	-.69313	1.00137	5.235	4.197	1.247	1.247	2.680
-1.4	-.49324	1.00112	5.129	4.099	1.251	1.251	2.684
-1.2	-.29332	1.00093	5.045	4.021	1.255	1.255	2.688
-1.0	-.09337	1.00081	4.978	3.958	1.257	1.258	2.691
-.8	.10660	1.00075	4.924	3.909	1.260	1.260	2.693
-.6	.30661	1.00077	4.882	3.870	1.261	1.262	2.696
-.4	.50666	1.00089	4.848	3.839	1.263	1.264	2.698
-.2	.70678	1.00116	4.821	3.814	1.264	1.266	2.700
-.0	.90698	1.00163	4.800	3.794	1.265	1.267	2.702
.2	1.10732	1.00242	4.784	3.779	1.266	1.269	2.705
.4	1.30788	1.00371	4.770	3.767	1.267	1.271	2.710
.6	1.50878	1.00578	4.760	3.757	1.267	1.275	2.716
.8	1.71021	1.00909	4.753	3.750	1.267	1.279	2.725
1.0	1.91247	1.01436	4.747	3.745	1.268	1.286	2.740
1.2	2.11604	1.02273	4.745	3.742	1.268	1.297	2.762
1.4	2.32164	1.03601	4.744	3.741	1.268	1.313	2.797
1.6	2.53038	1.05705	4.748	3.742	1.269	1.338	2.852
1.8	2.74387	1.09043	4.758	3.747	1.270	1.376	2.938
2.0	2.96442	1.14324	4.778	3.756	1.272	1.432	3.069
2.2	3.19500	1.22667	4.817	3.773	1.276	1.511	3.265

Table 1 Continued

T = 2300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.79548	1.19933	10.353	8.706	1.189	1.177	2.914
-6.6	-5.59724	1.19449	13.054	11.144	1.171	1.157	2.882
-6.4	-5.39970	1.18774	16.478	14.213	1.159	1.140	2.853
-6.2	-5.20300	1.17873	20.340	17.664	1.151	1.127	2.826
-6.0	-5.00723	1.16731	24.153	21.070	1.146	1.118	2.801
-5.8	-4.81234	1.15366	27.355	23.930	1.143	1.112	2.777
-5.6	-4.61815	1.13833	29.483	25.828	1.142	1.108	2.754
-5.4	-4.42438	1.12212	30.289	26.547	1.141	1.106	2.732
-5.2	-4.23071	1.10589	29.797	26.118	1.141	1.106	2.712
-5.0	-4.03685	1.09036	28.247	24.764	1.141	1.107	2.694
-4.8	-3.84258	1.07607	26.000	22.802	1.140	1.109	2.679
-4.6	-3.64776	1.06332	23.416	20.541	1.140	1.112	2.667
-4.4	-3.45231	1.05222	20.780	18.223	1.140	1.116	2.658
-4.2	-3.25624	1.04274	18.282	16.010	1.142	1.122	2.652
-4.0	-3.05957	1.03477	16.024	13.997	1.145	1.128	2.649
-3.8	-2.86236	1.02816	14.048	12.224	1.149	1.135	2.650
-3.6	-2.66467	1.02271	12.358	10.700	1.155	1.143	2.652
-3.4	-2.46656	1.01826	10.937	9.413	1.162	1.152	2.657
-3.2	-2.26810	1.01464	9.757	8.340	1.170	1.162	2.663
-3.0	-2.06936	1.01172	8.786	7.455	1.179	1.172	2.671
-2.8	-1.87037	1.00937	7.994	6.731	1.188	1.182	2.679
-2.6	-1.67118	1.00748	7.351	6.143	1.197	1.192	2.688
-2.4	-1.47183	1.00597	6.832	5.667	1.206	1.202	2.697
-2.2	-1.27236	1.00476	6.414	5.283	1.214	1.211	2.705
-2.0	-1.07277	1.00379	6.079	4.975	1.222	1.219	2.713
-1.8	-.87310	1.00303	5.810	4.728	1.229	1.227	2.720
-1.6	-.67337	1.00243	5.595	4.530	1.235	1.233	2.727
-1.4	-.47357	1.00196	5.424	4.372	1.241	1.239	2.732
-1.2	-.27372	1.00160	5.287	4.246	1.245	1.244	2.737
-1.0	-.07384	1.00134	5.178	4.145	1.249	1.248	2.741
-.8	.12609	1.00117	5.091	4.065	1.252	1.251	2.745
-.6	.32606	1.00111	5.022	4.002	1.255	1.254	2.748
-.4	.52608	1.00116	4.967	3.951	1.257	1.257	2.751
-.2	.72617	1.00137	4.924	3.911	1.259	1.259	2.754
-.0	.92636	1.00179	4.889	3.879	1.260	1.261	2.757
.2	1.12669	1.00255	4.862	3.853	1.262	1.264	2.760
.4	1.32723	1.00381	4.840	3.833	1.263	1.266	2.765
.6	1.52812	1.00587	4.823	3.818	1.263	1.270	2.771
.8	1.72954	1.00917	4.810	3.806	1.264	1.274	2.781
1.0	1.93180	1.01442	4.800	3.797	1.264	1.281	2.796
1.2	2.13537	1.02280	4.794	3.790	1.265	1.292	2.819
1.4	2.34097	1.03607	4.790	3.787	1.265	1.308	2.855
1.6	2.54972	1.05712	4.792	3.786	1.266	1.333	2.911
1.8	2.76321	1.09051	4.799	3.789	1.267	1.371	2.999
2.0	2.98377	1.14335	4.817	3.797	1.269	1.427	3.132
2.2	3.21436	1.22681	4.852	3.812	1.273	1.505	3.332

Table 1 Continued

T = 2400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.77481	1.20539	6.736	5.361	1.257	1.247	3.071
-6.6	-5.57556	1.20331	7.780	6.327	1.230	1.220	3.035
-6.4	-5.37665	1.20028	9.332	7.750	1.204	1.194	2.999
-6.2	-5.17824	1.19590	11.535	9.746	1.183	1.171	2.964
-6.0	-4.98047	1.18977	14.424	12.341	1.169	1.152	2.932
-5.8	-4.78351	1.18148	17.837	15.387	1.159	1.137	2.903
-5.6	-4.58745	1.17081	21.391	18.549	1.153	1.126	2.877
-5.4	-4.39229	1.15784	24.569	21.372	1.150	1.119	2.851
-5.2	-4.19789	1.14299	26.885	23.426	1.148	1.114	2.827
-5.0	-4.00401	1.12701	28.028	24.440	1.147	1.112	2.804
-4.8	-3.81032	1.11074	27.939	24.370	1.146	1.111	2.783
-4.6	-3.61654	1.09496	26.795	23.381	1.146	1.112	2.764
-4.4	-3.42240	1.08028	24.908	21.745	1.145	1.113	2.747
-4.2	-3.22775	1.06705	22.619	19.755	1.145	1.116	2.734
-4.0	-3.03250	1.05545	20.212	17.649	1.145	1.120	2.724
-3.8	-2.83661	1.04549	17.883	15.598	1.146	1.125	2.717
-3.6	-2.64012	1.03708	15.749	13.706	1.149	1.131	2.713
-3.4	-2.44307	1.03007	13.862	12.022	1.153	1.138	2.713
-3.2	-2.24552	1.02428	12.237	10.565	1.158	1.146	2.714
-3.0	-2.04753	1.01954	10.863	9.327	1.165	1.155	2.718
-2.8	-1.84918	1.01568	9.718	8.291	1.172	1.164	2.724
-2.6	-1.65051	1.01256	8.773	7.434	1.180	1.174	2.731
-2.4	-1.45159	1.01005	8.001	6.731	1.189	1.183	2.739
-2.2	-1.25246	1.00803	7.373	6.159	1.197	1.193	2.747
-2.0	-1.05316	1.00641	6.865	5.695	1.205	1.202	2.755
-1.8	-.85372	1.00512	6.455	5.321	1.213	1.211	2.763
-1.6	-.65416	1.00409	6.127	5.020	1.220	1.218	2.771
-1.4	-.45451	1.00328	5.863	4.778	1.227	1.225	2.778
-1.2	-.25478	1.00265	5.652	4.585	1.233	1.232	2.784
-1.0	-.05499	1.00218	5.484	4.430	1.238	1.237	2.789
-.8	.14486	1.00184	5.349	4.307	1.242	1.242	2.794
-.6	.34478	1.00164	5.242	4.209	1.246	1.246	2.798
-.4	.54475	1.00158	5.157	4.130	1.249	1.249	2.802
-.2	.74480	1.00170	5.089	4.068	1.251	1.252	2.805
-.0	.94496	1.00206	5.035	4.018	1.253	1.255	2.809
.2	1.14526	1.00276	4.992	3.979	1.255	1.258	2.813
.4	1.34579	1.00398	4.958	3.948	1.256	1.261	2.818
.6	1.54666	1.00600	4.932	3.923	1.257	1.264	2.825
.8	1.74807	1.00926	4.911	3.904	1.258	1.269	2.836
1.0	1.95032	1.01450	4.895	3.889	1.258	1.277	2.851
1.2	2.15388	1.02287	4.883	3.879	1.259	1.287	2.875
1.4	2.35948	1.03612	4.876	3.872	1.259	1.304	2.912
1.6	2.56822	1.05719	4.873	3.868	1.260	1.329	2.969
1.8	2.78172	1.09057	4.878	3.868	1.261	1.366	3.058
2.0	3.00227	1.14341	4.892	3.874	1.263	1.421	3.194
2.2	3.23286	1.22686	4.924	3.888	1.267	1.499	3.397

Table 1 Continued

T = 2500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.75623	1.20775	5.523	4.230	1.306	1.299	3.203
-6.6	-5.55657	1.20680	5.926	4.601	1.288	1.280	3.178
-6.4	-5.35707	1.20541	6.538	5.166	1.266	1.257	3.147
-6.2	-5.15780	1.20339	7.457	6.012	1.240	1.231	3.111
-6.0	-4.95887	1.20044	8.810	7.251	1.215	1.205	3.075
-5.8	-4.76040	1.19621	10.728	8.989	1.193	1.181	3.039
-5.6	-4.56256	1.19028	13.268	11.270	1.177	1.161	3.006
-5.4	-4.36550	1.18225	16.322	13.994	1.166	1.145	2.975
-5.2	-4.16932	1.17188	19.578	16.884	1.160	1.134	2.947
-5.0	-3.97405	1.15919	22.571	19.531	1.156	1.125	2.920
-4.8	-3.77956	1.14458	24.831	21.527	1.153	1.120	2.895
-4.6	-3.58561	1.12874	26.037	22.592	1.152	1.117	2.871
-4.4	-3.39190	1.11250	26.102	22.661	1.152	1.116	2.849
-4.2	-3.19813	1.09667	25.169	21.861	1.151	1.117	2.829
-4.0	-3.00403	1.08187	23.516	20.438	1.151	1.118	2.812
-3.8	-2.80944	1.06848	21.458	18.658	1.150	1.121	2.798
-3.6	-2.61425	1.05671	19.262	16.746	1.150	1.125	2.787
-3.4	-2.41844	1.04657	17.118	14.866	1.151	1.130	2.780
-3.2	-2.22201	1.03799	15.138	13.119	1.154	1.136	2.776
-3.0	-2.02502	1.03082	13.379	11.557	1.158	1.143	2.775
-2.8	-1.82752	1.02490	11.859	10.199	1.163	1.150	2.776
-2.6	-1.62958	1.02005	10.571	9.043	1.169	1.159	2.780
-2.4	-1.43127	1.01610	9.495	8.074	1.176	1.168	2.785
-2.2	-1.23264	1.01290	8.606	7.271	1.184	1.177	2.791
-2.0	-1.03374	1.01033	7.878	6.612	1.191	1.186	2.799
-1.8	-.83463	1.00826	7.286	6.075	1.199	1.195	2.807
-1.6	-.63535	1.00660	6.806	5.639	1.207	1.204	2.814
-1.4	-.43592	1.00529	6.420	5.287	1.214	1.212	2.822
-1.2	-.23636	1.00426	6.109	5.004	1.221	1.219	2.829
-1.0	-.03671	1.00346	5.860	4.777	1.227	1.226	2.835
-.8	.16303	1.00286	5.661	4.595	1.232	1.231	2.841
-.6	.36286	1.00245	5.502	4.449	1.237	1.236	2.846
-.4	.56276	1.00222	5.375	4.333	1.240	1.241	2.851
-.2	.76275	1.00221	5.274	4.241	1.244	1.245	2.856
-.0	.96286	1.00246	5.193	4.167	1.246	1.248	2.860
.2	1.16313	1.00308	5.129	4.108	1.248	1.251	2.865
.4	1.36363	1.00424	5.078	4.062	1.250	1.255	2.870
.6	1.56448	1.00620	5.038	4.025	1.252	1.259	2.878
.8	1.76587	1.00942	5.006	3.996	1.253	1.265	2.889
1.0	1.96811	1.01464	4.982	3.973	1.254	1.272	2.905
1.2	2.17166	1.02296	4.963	3.956	1.254	1.283	2.929
1.4	2.37725	1.03621	4.950	3.944	1.255	1.299	2.967
1.6	2.58598	1.05727	4.943	3.936	1.256	1.324	3.025
1.8	2.79947	1.09062	4.942	3.933	1.257	1.362	3.116
2.0	3.02001	1.14343	4.953	3.936	1.258	1.417	3.254
2.2	3.25058	1.22683	4.981	3.947	1.262	1.493	3.461

Table 1 Continued

T = 2600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.73880	1.20885	5.146	3.888	1.323	1.319	3.292
-6.6	-5.53899	1.20833	5.278	4.006	1.317	1.312	3.283
-6.4	-5.33924	1.20761	5.512	4.218	1.307	1.300	3.267
-6.2	-5.13961	1.20660	5.887	4.561	1.291	1.283	3.244
-6.0	-4.94013	1.20515	6.464	5.089	1.270	1.261	3.214
-5.8	-4.74089	1.20304	7.328	5.880	1.246	1.236	3.180
-5.6	-4.54199	1.19999	8.591	7.031	1.222	1.211	3.143
-5.4	-4.34357	1.19565	10.364	8.633	1.200	1.187	3.107
-5.2	-4.14577	1.18960	12.696	10.723	1.184	1.167	3.073
-5.0	-3.94876	1.18146	15.493	13.212	1.173	1.151	3.041
-4.8	-3.75262	1.17098	18.469	15.846	1.166	1.139	3.012
-4.6	-3.55738	1.15822	21.198	18.251	1.161	1.131	2.984
-4.4	-3.36291	1.14357	23.245	20.051	1.159	1.126	2.958
-4.2	-3.16896	1.12775	24.317	20.996	1.158	1.123	2.934
-4.0	-2.97524	1.11157	24.341	21.030	1.157	1.121	2.911
-3.8	-2.78143	1.09582	23.457	20.280	1.157	1.122	2.891
-3.6	-2.58730	1.08111	21.926	18.969	1.156	1.123	2.873
-3.4	-2.39267	1.06782	20.035	17.340	1.155	1.126	2.859
-3.2	-2.19745	1.05615	18.024	15.596	1.156	1.130	2.849
-3.0	-2.00160	1.04610	16.063	13.883	1.157	1.135	2.841
-2.8	-1.80514	1.03760	14.255	12.294	1.160	1.141	2.837
-2.6	-1.60812	1.03051	12.650	10.874	1.163	1.148	2.836
-2.4	-1.41060	1.02465	11.264	9.640	1.168	1.156	2.837
-2.2	-1.21264	1.01985	10.089	8.590	1.174	1.164	2.841
-2.0	-1.01430	1.01594	9.107	7.710	1.181	1.172	2.846
-1.8	-.81566	1.01278	8.297	6.981	1.189	1.181	2.852
-1.6	-.61675	1.01024	7.634	6.382	1.196	1.190	2.859
-1.4	-.41763	1.00820	7.095	5.895	1.204	1.199	2.866
-1.2	-.21832	1.00658	6.658	5.499	1.211	1.207	2.874
-1.0	-.01887	1.00532	6.306	5.180	1.217	1.214	2.881
-.8	.18071	1.00434	6.023	4.923	1.224	1.221	2.887
-.6	.38040	1.00363	5.796	4.717	1.229	1.227	2.893
-.4	.58020	1.00317	5.614	4.552	1.234	1.232	2.899
-.2	.78011	1.00296	5.470	4.420	1.238	1.237	2.904
-.0	.98015	1.00306	5.354	4.314	1.241	1.241	2.909
.2	1.18037	1.00355	5.262	4.231	1.244	1.245	2.915
.4	1.38082	1.00461	5.188	4.164	1.246	1.249	2.921
.6	1.58164	1.00650	5.130	4.111	1.248	1.254	2.929
.8	1.78300	1.00967	5.084	4.069	1.250	1.260	2.941
1.0	1.98522	1.01482	5.048	4.036	1.251	1.267	2.957
1.2	2.18875	1.02310	5.020	4.011	1.252	1.279	2.982
1.4	2.39432	1.03632	4.999	3.991	1.253	1.295	3.021
1.6	2.60304	1.05733	4.986	3.978	1.253	1.320	3.081
1.8	2.81652	1.09066	4.980	3.971	1.254	1.357	3.173
2.0	3.03705	1.14345	4.987	3.970	1.256	1.412	3.313
2.2	3.26758	1.22675	5.010	3.978	1.259	1.489	3.524

Table 1 Continued

T = 2700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.72214	1.20960	5.243	3.989	1.314	1.311	3.346
-6.6	-5.52228	1.20922	5.217	3.961	1.317	1.314	3.349
-6.4	-5.32244	1.20876	5.254	3.991	1.317	1.313	3.347
-6.2	-5.12266	1.20816	5.371	4.094	1.312	1.307	3.340
-6.0	-4.92295	1.20735	5.594	4.294	1.303	1.297	3.325
-5.8	-4.72336	1.20621	5.962	4.628	1.288	1.281	3.303
-5.6	-4.52394	1.20459	6.534	5.148	1.269	1.261	3.274
-5.4	-4.32478	1.20227	7.391	5.928	1.247	1.237	3.241
-5.2	-4.12598	1.19894	8.631	7.051	1.224	1.213	3.204
-5.0	-3.92769	1.19425	10.348	8.596	1.204	1.190	3.168
-4.8	-3.73005	1.18777	12.568	10.578	1.188	1.171	3.133
-4.6	-3.53321	1.17916	15.177	12.892	1.177	1.155	3.101
-4.4	-3.33726	1.16823	17.894	15.286	1.171	1.144	3.071
-4.2	-3.14217	1.15508	20.312	17.410	1.167	1.136	3.043
-4.0	-2.94781	1.14018	22.045	18.929	1.165	1.130	3.017
-3.8	-2.75391	1.12427	22.854	19.644	1.163	1.128	2.992
-3.6	-2.56017	1.10818	22.712	19.537	1.163	1.127	2.969
-3.4	-2.36631	1.09264	21.775	18.746	1.162	1.127	2.949
-3.2	-2.17207	1.07823	20.295	17.483	1.161	1.129	2.931
-3.0	-1.97732	1.06529	18.527	15.965	1.160	1.132	2.918
-2.8	-1.78196	1.05396	16.682	14.370	1.161	1.136	2.907
-2.6	-1.58598	1.04425	14.903	12.820	1.162	1.141	2.901
-2.4	-1.38940	1.03605	13.274	11.393	1.165	1.147	2.897
-2.2	-1.19227	1.02923	11.836	10.124	1.169	1.154	2.896
-2.0	-.99465	1.02360	10.598	9.027	1.174	1.162	2.898
-1.8	-.79661	1.01900	9.551	8.095	1.180	1.170	2.901
-1.6	-.59820	1.01527	8.680	7.315	1.186	1.178	2.906
-1.4	-.39949	1.01225	7.961	6.671	1.193	1.187	2.912
-1.2	-.20053	1.00984	7.373	6.143	1.200	1.195	2.919
-1.0	-.00136	1.00792	6.896	5.712	1.207	1.203	2.926
-.8	.19800	1.00643	6.509	5.364	1.214	1.210	2.933
-.6	.39751	1.00529	6.198	5.082	1.220	1.217	2.939
-.4	.59716	1.00449	5.948	4.856	1.225	1.223	2.945
-.2	.79696	1.00402	5.748	4.675	1.229	1.229	2.951
-.0	.99691	1.00390	5.587	4.530	1.234	1.234	2.957
.2	1.19705	1.00422	5.459	4.414	1.237	1.239	2.963
.4	1.39744	1.00514	5.357	4.321	1.240	1.243	2.971
.6	1.59821	1.00692	5.276	4.248	1.242	1.249	2.979
.8	1.79954	1.01000	5.212	4.189	1.244	1.255	2.991
1.0	2.00172	1.01507	5.161	4.143	1.246	1.263	3.008
1.2	2.20522	1.02330	5.121	4.107	1.247	1.274	3.034
1.4	2.41078	1.03647	5.090	4.080	1.248	1.291	3.074
1.6	2.61947	1.05742	5.069	4.060	1.249	1.316	3.135
1.8	2.83293	1.09072	5.057	4.047	1.250	1.353	3.228
2.0	3.05344	1.14344	5.057	4.041	1.251	1.408	3.371
2.2	3.28394	1.22665	5.076	4.045	1.255	1.484	3.585

Table 1 Continued

T = 2800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.70603	1.21047	5.685	4.413	1.288	1.286	3.376
-6.6	-5.50618	1.21006	5.512	4.247	1.298	1.296	3.388
-6.4	-5.30633	1.20963	5.402	4.139	1.305	1.303	3.397
-6.2	-5.10650	1.20916	5.355	4.091	1.309	1.307	3.401
-6.0	-4.90671	1.20860	5.381	4.109	1.310	1.307	3.400
-5.8	-4.70696	1.20788	5.494	4.207	1.306	1.302	3.393
-5.6	-4.50731	1.20691	5.722	4.411	1.297	1.292	3.379
-5.4	-4.30779	1.20558	6.106	4.757	1.284	1.277	3.358
-5.2	-4.10847	1.20369	6.706	5.300	1.265	1.257	3.329
-5.0	-3.90944	1.20101	7.599	6.107	1.244	1.235	3.295
-4.8	-3.71081	1.19722	8.875	7.256	1.223	1.212	3.259
-4.6	-3.51273	1.19194	10.602	8.801	1.205	1.190	3.223
-4.4	-3.31536	1.18476	12.770	10.729	1.190	1.172	3.188
-4.2	-3.11881	1.17538	15.231	12.900	1.181	1.157	3.156
-4.0	-2.92315	1.16370	17.682	15.050	1.175	1.146	3.125
-3.8	-2.72831	1.14995	19.741	16.851	1.171	1.139	3.097
-3.6	-2.53411	1.13468	21.081	18.025	1.170	1.135	3.070
-3.4	-2.34028	1.11867	21.542	18.438	1.168	1.132	3.045
-3.2	-2.14651	1.10274	21.157	18.126	1.167	1.132	3.023
-3.0	-1.95253	1.08758	20.111	17.244	1.166	1.133	3.003
-2.8	-1.75812	1.07366	18.642	15.994	1.166	1.135	2.987
-2.6	-1.56316	1.06128	16.974	14.566	1.165	1.138	2.974
-2.4	-1.36759	1.05051	15.283	13.106	1.166	1.142	2.964
-2.2	-1.17140	1.04134	13.681	11.713	1.168	1.148	2.958
-2.0	-.97462	1.03363	12.233	10.446	1.171	1.154	2.955
-1.8	-.77732	1.02723	10.964	9.330	1.175	1.161	2.955
-1.6	-.57955	1.02198	9.879	8.370	1.180	1.169	2.957
-1.4	-.38137	1.01769	8.966	7.559	1.186	1.177	2.961
-1.2	-.18285	1.01423	8.208	6.884	1.192	1.185	2.966
-1.0	.01596	1.01146	7.585	6.327	1.199	1.193	2.972
-.8	.21502	1.00927	7.076	5.871	1.205	1.201	2.979
-.6	.41429	1.00757	6.664	5.501	1.211	1.208	2.985
-.4	.61374	1.00631	6.330	5.201	1.217	1.215	2.992
-.2	.81338	1.00547	6.062	4.959	1.222	1.221	2.998
-.0	1.01320	1.00506	5.847	4.765	1.227	1.227	3.004
.2	1.21324	1.00514	5.674	4.609	1.231	1.232	3.011
.4	1.41355	1.00587	5.536	4.485	1.234	1.238	3.019
.6	1.61426	1.00750	5.426	4.385	1.237	1.243	3.028
.8	1.81553	1.01045	5.338	4.307	1.240	1.250	3.041
1.0	2.01767	1.01543	5.269	4.244	1.241	1.258	3.059
1.2	2.22113	1.02358	5.214	4.195	1.243	1.270	3.085
1.4	2.42666	1.03666	5.172	4.157	1.244	1.287	3.126
1.6	2.63533	1.05757	5.140	4.128	1.245	1.312	3.188
1.8	2.84876	1.09079	5.120	4.108	1.246	1.350	3.283
2.0	3.06923	1.14342	5.114	4.097	1.248	1.404	3.428
2.2	3.29969	1.22652	5.126	4.095	1.252	1.480	3.645

Table 1 Continued

T = 2900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.69031	1.21182	6.533	5.216	1.252	1.249	3.387
-6.6	-5.49053	1.21121	6.156	4.858	1.267	1.264	3.407
-6.4	-5.29072	1.21066	5.871	4.586	1.280	1.277	3.423
-6.2	-5.09091	1.21014	5.664	4.388	1.291	1.287	3.437
-6.0	-4.89110	1.20961	5.532	4.258	1.299	1.295	3.447
-5.8	-4.69131	1.20903	5.473	4.197	1.304	1.300	3.452
-5.6	-4.49156	1.20833	5.495	4.211	1.305	1.300	3.451
-5.4	-4.29188	1.20744	5.617	4.316	1.301	1.296	3.444
-5.2	-4.09231	1.20626	5.867	4.539	1.293	1.286	3.430
-5.0	-3.89289	1.20463	6.290	4.917	1.279	1.271	3.407
-4.8	-3.69372	1.20235	6.946	5.508	1.261	1.252	3.378
-4.6	-3.49487	1.19915	7.912	6.375	1.241	1.230	3.344
-4.4	-3.29650	1.19468	9.262	7.584	1.221	1.208	3.308
-4.2	-3.09873	1.18855	11.033	9.160	1.204	1.188	3.272
-4.0	-2.90173	1.18038	13.167	11.045	1.192	1.171	3.237
-3.8	-2.70558	1.16996	15.465	13.063	1.184	1.158	3.205
-3.6	-2.51030	1.15732	17.607	14.934	1.179	1.149	3.175
-3.4	-2.31576	1.14284	19.248	16.365	1.176	1.142	3.146
-3.2	-2.12175	1.12720	20.142	17.150	1.174	1.138	3.120
-3.0	-1.92796	1.11119	20.220	17.236	1.173	1.137	3.095
-2.8	-1.73410	1.09559	19.582	16.710	1.172	1.137	3.073
-2.6	-1.53993	1.08098	18.428	15.741	1.171	1.138	3.054
-2.4	-1.34527	1.06778	16.979	14.510	1.170	1.141	3.039
-2.2	-1.15002	1.05615	15.422	13.179	1.170	1.144	3.028
-2.0	-.95416	1.04614	13.893	11.861	1.171	1.149	3.019
-1.8	-.75769	1.03766	12.476	10.631	1.174	1.155	3.014
-1.6	-.56067	1.03058	11.213	9.528	1.177	1.161	3.012
-1.4	-.36314	1.02474	10.119	8.568	1.181	1.168	3.013
-1.2	-.16516	1.01996	9.190	7.748	1.186	1.176	3.015
-1.0	.03319	1.01610	8.413	7.060	1.192	1.183	3.019
-.8	.23186	1.01301	7.771	6.490	1.197	1.191	3.024
-.6	.43082	1.01057	7.245	6.021	1.203	1.198	3.030
-.4	.63002	1.00872	6.816	5.638	1.209	1.205	3.036
-.2	.82945	1.00740	6.469	5.328	1.214	1.212	3.043
-.0	1.02911	1.00660	6.189	5.077	1.219	1.218	3.049
.2	1.22901	1.00637	5.964	4.875	1.223	1.224	3.056
.4	1.42922	1.00685	5.784	4.713	1.227	1.230	3.064
.6	1.62983	1.00827	5.640	4.584	1.230	1.236	3.074
.8	1.83103	1.01106	5.524	4.480	1.233	1.243	3.087
1.0	2.03311	1.01592	5.432	4.398	1.235	1.252	3.106
1.2	2.23653	1.02395	5.359	4.333	1.237	1.264	3.133
1.4	2.44201	1.03695	5.303	4.282	1.238	1.281	3.174
1.6	2.65065	1.05778	5.260	4.243	1.240	1.306	3.237
1.8	2.86404	1.09090	5.229	4.214	1.241	1.344	3.334
2.0	3.08447	1.14344	5.215	4.196	1.243	1.398	3.481
2.2	3.31488	1.22638	5.218	4.189	1.246	1.473	3.701

Table 1 Continued

T = 3000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.67477	1.21411	8.065	6.662	1.211	1.207	3.391
-6.6	-5.47513	1.21308	7.366	6.002	1.227	1.224	3.413
-6.4	-5.27544	1.21222	6.818	5.483	1.243	1.240	3.435
-6.2	-5.07571	1.21147	6.394	5.081	1.259	1.256	3.454
-6.0	-4.87595	1.21080	6.073	4.775	1.272	1.269	3.472
-5.8	-4.67618	1.21016	5.843	4.554	1.283	1.280	3.486
-5.6	-4.47642	1.20950	5.696	4.411	1.291	1.288	3.496
-5.4	-4.27668	1.20876	5.634	4.346	1.296	1.293	3.501
-5.2	-4.07700	1.20789	5.666	4.368	1.297	1.293	3.500
-5.0	-3.87740	1.20677	5.812	4.493	1.293	1.288	3.492
-4.8	-3.67794	1.20528	6.106	4.753	1.285	1.278	3.476
-4.6	-3.47867	1.20325	6.593	5.188	1.271	1.263	3.453
-4.4	-3.27969	1.20042	7.340	5.855	1.254	1.244	3.422
-4.2	-3.08112	1.19649	8.412	6.813	1.235	1.223	3.388
-4.0	-2.88308	1.19108	9.865	8.104	1.217	1.202	3.352
-3.8	-2.68574	1.18381	11.689	9.716	1.203	1.184	3.316
-3.6	-2.48922	1.17438	13.762	11.536	1.193	1.169	3.282
-3.4	-2.29355	1.16271	15.838	13.348	1.187	1.158	3.250
-3.2	-2.09870	1.14901	17.595	14.876	1.183	1.150	3.220
-3.0	-1.90447	1.13385	18.751	15.885	1.180	1.145	3.192
-2.8	-1.71060	1.11796	19.164	16.257	1.179	1.142	3.165
-2.6	-1.51678	1.10215	18.859	16.019	1.177	1.142	3.142
-2.4	-1.32276	1.08710	17.989	15.297	1.176	1.142	3.121
-2.2	-1.12831	1.07329	16.754	14.259	1.175	1.144	3.104
-2.0	-.93331	1.06099	15.346	13.064	1.175	1.147	3.090
-1.8	-.73771	1.05030	13.912	11.838	1.175	1.152	3.080
-1.6	-.54150	1.04118	12.550	10.665	1.177	1.157	3.074
-1.4	-.34470	1.03353	11.316	9.594	1.179	1.163	3.070
-1.2	-.14738	1.02719	10.233	8.650	1.183	1.169	3.069
-1.0	.05042	1.02199	9.306	7.837	1.187	1.176	3.071
-.8	.24863	1.01779	8.525	7.150	1.192	1.183	3.074
-.6	.44720	1.01444	7.876	6.577	1.198	1.191	3.078
-.4	.64608	1.01183	7.343	6.104	1.203	1.198	3.083
-.2	.84525	1.00990	6.907	5.717	1.208	1.205	3.089
-.0	1.04469	1.00860	6.553	5.402	1.213	1.211	3.096
.2	1.24442	1.00797	6.267	5.147	1.218	1.218	3.103
.4	1.44449	1.00812	6.037	4.942	1.222	1.224	3.111
.6	1.64499	1.00929	5.852	4.777	1.225	1.231	3.122
.8	1.84610	1.01186	5.704	4.645	1.228	1.238	3.135
1.0	2.04811	1.01655	5.585	4.539	1.231	1.247	3.154
1.2	2.25147	1.02444	5.491	4.455	1.233	1.260	3.182
1.4	2.45689	1.03733	5.417	4.389	1.234	1.277	3.224
1.6	2.66548	1.05803	5.360	4.338	1.236	1.303	3.288
1.8	2.87883	1.09107	5.318	4.299	1.237	1.340	3.386
2.0	3.09922	1.14350	5.293	4.273	1.239	1.393	3.535
2.2	3.32956	1.22627	5.297	4.258	1.244	1.457	3.744

Table 1 Continued

T = 3100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.65913	1.21802	10.541	8.985	1.173	1.169	3.397
-6.6	-5.45977	1.21622	9.333	7.850	1.189	1.185	3.418
-6.4	-5.26029	1.21476	8.376	6.948	1.206	1.202	3.440
-6.2	-5.06073	1.21355	7.621	6.236	1.222	1.219	3.463
-6.0	-4.86109	1.21253	7.029	5.677	1.238	1.235	3.484
-5.8	-4.66141	1.21165	6.572	5.244	1.253	1.250	3.504
-5.6	-4.46170	1.21084	6.229	4.918	1.267	1.264	3.522
-5.4	-4.26198	1.21006	5.986	4.685	1.278	1.275	3.536
-5.2	-4.06227	1.20924	5.838	4.540	1.286	1.283	3.546
-5.0	-3.86260	1.20832	5.786	4.484	1.291	1.287	3.550
-4.8	-3.66300	1.20720	5.844	4.527	1.291	1.286	3.548
-4.6	-3.46352	1.20577	6.035	4.692	1.286	1.281	3.538
-4.4	-3.26421	1.20386	6.396	5.010	1.277	1.270	3.520
-4.2	-3.06515	1.20125	6.980	5.528	1.263	1.254	3.494
-4.0	-2.86645	1.19766	7.847	6.299	1.246	1.235	3.462
-3.8	-2.66824	1.19274	9.053	7.367	1.229	1.215	3.427
-3.6	-2.47067	1.18609	10.612	8.744	1.214	1.196	3.391
-3.4	-2.27386	1.17740	12.454	10.359	1.202	1.180	3.356
-3.2	-2.07790	1.16649	14.390	12.048	1.194	1.168	3.323
-3.0	-1.88278	1.15347	16.141	13.569	1.190	1.158	3.291
-2.8	-1.68834	1.13878	17.424	14.682	1.187	1.152	3.261
-2.6	-1.49436	1.12312	18.052	15.235	1.185	1.149	3.234
-2.4	-1.30053	1.10726	17.995	15.207	1.183	1.147	3.209
-2.2	-1.10658	1.09194	17.355	14.685	1.182	1.147	3.186
-2.0	-.91228	1.07771	16.310	13.815	1.181	1.149	3.168
-1.8	-.71747	1.06492	15.046	12.750	1.180	1.151	3.152
-1.6	-.52206	1.05371	13.713	11.618	1.180	1.155	3.141
-1.4	-.32604	1.04409	12.419	10.510	1.182	1.160	3.133
-1.2	-.12943	1.03599	11.228	9.484	1.184	1.166	3.129
-1.0	.06774	1.02925	10.171	8.569	1.187	1.172	3.127
-.8	.26540	1.02373	9.259	7.773	1.191	1.179	3.127
-.6	.46350	1.01927	8.487	7.097	1.196	1.186	3.130
-.4	.66200	1.01574	7.842	6.531	1.201	1.193	3.134
-.2	.86085	1.01305	7.310	6.062	1.206	1.200	3.139
-.0	1.06002	1.01113	6.874	5.676	1.211	1.207	3.145
.2	1.25954	1.01000	6.519	5.363	1.216	1.214	3.152
.4	1.45943	1.00975	6.233	5.108	1.220	1.221	3.161
.6	1.65979	1.01058	6.001	4.902	1.224	1.228	3.171
.8	1.86078	1.01290	5.815	4.737	1.228	1.236	3.185
1.0	2.06269	1.01736	5.666	4.604	1.231	1.246	3.205
1.2	2.26597	1.02507	5.547	4.499	1.233	1.258	3.233
1.4	2.47134	1.03781	5.452	4.415	1.235	1.276	3.277
1.6	2.67987	1.05839	5.378	4.349	1.237	1.302	3.342
1.8	2.89316	1.09130	5.323	4.299	1.238	1.339	3.442
2.0	3.11348	1.14358	5.287	4.263	1.240	1.393	3.593

Table 1 Continued

T = 3200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.64304	1.22450	14.390	12.571	1.145	1.138	3.415
-6.6	-5.44414	1.22140	12.400	10.713	1.157	1.152	3.431
-6.4	-5.24502	1.21891	10.814	9.229	1.172	1.167	3.449
-6.2	-5.04574	1.21690	9.554	8.047	1.187	1.183	3.470
-6.0	-4.84633	1.21525	8.555	7.109	1.204	1.199	3.492
-5.8	-4.64682	1.21388	7.769	6.368	1.220	1.216	3.515
-5.6	-4.44724	1.21272	7.154	5.789	1.236	1.232	3.536
-5.4	-4.24761	1.21169	6.683	5.343	1.251	1.247	3.556
-5.2	-4.04795	1.21073	6.335	5.011	1.264	1.260	3.573
-5.0	-3.84829	1.20979	6.095	4.781	1.275	1.271	3.587
-4.8	-3.64865	1.20877	5.961	4.648	1.283	1.278	3.595
-4.6	-3.44907	1.20760	5.939	4.617	1.286	1.281	3.598
-4.4	-3.24959	1.20616	6.044	4.702	1.285	1.279	3.593
-4.2	-3.05026	1.20429	6.306	4.929	1.279	1.272	3.580
-4.0	-2.85117	1.20180	6.767	5.335	1.269	1.260	3.559
-3.8	-2.65239	1.19840	7.482	5.966	1.254	1.243	3.531
-3.6	-2.45407	1.19377	8.502	6.866	1.238	1.224	3.497
-3.4	-2.25635	1.18754	9.852	8.053	1.223	1.206	3.462
-3.2	-2.05935	1.17936	11.490	9.488	1.211	1.190	3.426
-3.0	-1.86318	1.16901	13.271	11.039	1.202	1.176	3.392
-2.8	-1.66784	1.15652	14.956	12.500	1.196	1.166	3.359
-2.6	-1.47324	1.14225	16.276	13.643	1.193	1.159	3.328
-2.4	-1.27914	1.12681	17.026	14.300	1.191	1.155	3.299
-2.2	-1.08528	1.11100	17.139	14.416	1.189	1.152	3.273
-2.0	-.89137	1.09555	16.680	14.049	1.187	1.152	3.249
-1.8	-.69715	1.08105	15.799	13.322	1.186	1.153	3.229
-1.6	-.50246	1.06792	14.669	12.379	1.185	1.155	3.213
-1.4	-.30719	1.05634	13.441	11.344	1.185	1.159	3.200
-1.2	-.11131	1.04636	12.226	10.311	1.186	1.163	3.191
-1.0	.08517	1.03793	11.092	9.340	1.188	1.168	3.186
-.8	.28222	1.03090	10.078	8.467	1.190	1.174	3.183
-.6	.47979	1.02515	9.196	7.703	1.194	1.181	3.183
-.4	.67783	1.02054	8.446	7.050	1.198	1.188	3.185
-.2	.87630	1.01693	7.817	6.500	1.203	1.195	3.188
-.0	1.07516	1.01427	7.297	6.043	1.207	1.202	3.193
.2	1.27441	1.01252	6.869	5.667	1.212	1.209	3.200
.4	1.47408	1.01177	6.521	5.361	1.216	1.216	3.208
.6	1.67427	1.01220	6.238	5.111	1.221	1.223	3.219
.8	1.87512	1.01418	6.010	4.910	1.224	1.232	3.233
1.0	2.07692	1.01838	5.827	4.748	1.227	1.242	3.253
1.2	2.28010	1.02589	5.680	4.618	1.230	1.255	3.282
1.4	2.48538	1.03842	5.563	4.514	1.232	1.273	3.326
1.6	2.69384	1.05886	5.470	4.433	1.234	1.299	3.392
1.8	2.90707	1.09161	5.400	4.369	1.236	1.336	3.494
2.0	3.12733	1.14373	5.351	4.323	1.238	1.390	3.647

Table 1 Continued

T = 3300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.62600	1.23490	20.235	17.970	1.126	1.115	3.447
-6.6	-5.42782	1.22973	17.086	15.057	1.135	1.126	3.456
-6.4	-5.22929	1.22557	14.564	12.715	1.145	1.138	3.469
-6.2	-5.03048	1.22223	12.549	10.838	1.158	1.152	3.485
-6.0	-4.83144	1.21954	10.944	9.339	1.172	1.167	3.504
-5.8	-4.63222	1.21734	9.668	8.146	1.187	1.183	3.525
-5.6	-4.43286	1.21554	8.659	7.200	1.203	1.199	3.547
-5.4	-4.23340	1.21402	7.867	6.454	1.219	1.216	3.569
-5.2	-4.03387	1.21272	7.251	5.874	1.234	1.232	3.590
-5.0	-3.83429	1.21154	6.785	5.433	1.249	1.246	3.609
-4.8	-3.63470	1.21042	6.447	5.111	1.261	1.259	3.626
-4.6	-3.43511	1.20927	6.228	4.900	1.271	1.268	3.638
-4.4	-3.23557	1.20800	6.128	4.796	1.278	1.274	3.644
-4.2	-3.03611	1.20649	6.155	4.810	1.280	1.275	3.644
-4.0	-2.83679	1.20460	6.334	4.959	1.277	1.272	3.636
-3.8	-2.63768	1.20212	6.698	5.275	1.270	1.262	3.619
-3.6	-2.43888	1.19881	7.294	5.797	1.258	1.248	3.594
-3.4	-2.24051	1.19433	8.170	6.566	1.244	1.232	3.563
-3.2	-2.04269	1.18834	9.352	7.602	1.230	1.214	3.528
-3.0	-1.84558	1.18046	10.815	8.879	1.218	1.198	3.493
-2.8	-1.64927	1.17048	12.445	10.295	1.209	1.184	3.458
-2.6	-1.45379	1.15835	14.033	11.669	1.203	1.173	3.424
-2.4	-1.25906	1.14439	15.329	12.790	1.199	1.165	3.392
-2.2	-1.06487	1.12917	16.130	13.488	1.196	1.160	3.362
-2.0	-.87097	1.11343	16.345	13.690	1.194	1.158	3.335
-1.8	-.67706	1.09793	16.012	13.431	1.192	1.157	3.310
-1.6	-.48288	1.08330	15.260	12.817	1.191	1.157	3.289
-1.4	-.28826	1.06996	14.245	11.976	1.189	1.159	3.272
-1.2	-.09308	1.05816	13.115	11.030	1.189	1.163	3.258
-1.0	.10271	1.04795	11.979	10.070	1.190	1.167	3.248
-.8	.29911	1.03931	10.908	9.159	1.191	1.172	3.242
-.6	.49610	1.03212	9.943	8.333	1.193	1.177	3.238
-.4	.69363	1.02626	9.100	7.606	1.196	1.184	3.238
-.2	.89165	1.02161	8.379	6.982	1.200	1.190	3.239
-.0	1.09014	1.01806	7.774	6.455	1.204	1.197	3.243
.2	1.28908	1.01558	7.271	6.017	1.208	1.204	3.248
.4	1.48850	1.01423	6.858	5.655	1.213	1.211	3.256
.6	1.68848	1.01417	6.520	5.359	1.217	1.219	3.266
.8	1.88916	1.01575	6.246	5.119	1.220	1.228	3.280
1.0	2.09081	1.01964	6.025	4.925	1.223	1.238	3.301
1.2	2.29389	1.02687	5.847	4.768	1.226	1.252	3.330
1.4	2.49907	1.03920	5.704	4.642	1.229	1.270	3.374
1.6	2.70745	1.05943	5.590	4.543	1.231	1.296	3.442
1.8	2.92060	1.09201	5.503	4.465	1.232	1.334	3.545
2.0	3.14077	1.14395	5.440	4.406	1.235	1.387	3.701

Table 1 Continued

T = 3400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.60740	1.25102	28.571	25.572	1.117	1.100	3.497
-6.6	-5.41031	1.24266	23.804	21.214	1.122	1.108	3.498
-6.4	-5.21267	1.23594	19.958	17.680	1.129	1.117	3.504
-6.2	-5.01457	1.23053	16.867	14.827	1.138	1.128	3.513
-6.0	-4.81611	1.22619	14.392	12.533	1.148	1.140	3.526
-5.8	-4.61735	1.22268	12.414	10.695	1.161	1.154	3.542
-5.6	-4.41837	1.21984	10.839	9.227	1.175	1.169	3.561
-5.4	-4.21919	1.21751	9.590	8.060	1.190	1.185	3.581
-5.2	-4.01988	1.21558	8.604	7.138	1.205	1.201	3.603
-5.0	-3.82047	1.21394	7.833	6.414	1.221	1.217	3.625
-4.8	-3.62099	1.21249	7.240	5.856	1.236	1.233	3.645
-4.6	-3.42147	1.21114	6.800	5.438	1.250	1.246	3.664
-4.4	-3.22195	1.20982	6.494	5.146	1.262	1.258	3.678
-4.2	-3.02245	1.20840	6.318	4.973	1.271	1.266	3.688
-4.0	-2.82304	1.20679	6.275	4.920	1.275	1.270	3.692
-3.8	-2.62375	1.20482	6.383	5.004	1.276	1.269	3.687
-3.6	-2.42466	1.20229	6.669	5.247	1.271	1.263	3.674
-3.4	-2.22586	1.19897	7.173	5.685	1.262	1.252	3.652
-3.2	-2.02747	1.19453	7.938	6.352	1.250	1.237	3.624
-3.0	-1.82962	1.18862	8.990	7.270	1.237	1.220	3.591
-2.8	-1.63245	1.18090	10.311	8.419	1.225	1.204	3.556
-2.6	-1.43607	1.17111	11.802	9.711	1.215	1.190	3.521
-2.4	-1.24051	1.15920	13.282	10.988	1.209	1.179	3.486
-2.2	-1.04570	1.14544	14.519	12.055	1.204	1.171	3.454
-2.0	-.85145	1.13037	15.316	12.747	1.201	1.166	3.423
-1.8	-.65750	1.11471	15.575	12.987	1.199	1.163	3.395
-1.6	-.46358	1.09923	15.318	12.794	1.197	1.162	3.369
-1.4	-.26942	1.08455	14.657	12.259	1.196	1.162	3.347
-1.2	-.07483	1.07113	13.735	11.500	1.194	1.164	3.329
-1.0	.12032	1.05922	12.692	10.631	1.194	1.167	3.315
-.8	.31607	1.04892	11.631	9.740	1.194	1.171	3.304
-.6	.51245	1.04020	10.625	8.889	1.195	1.176	3.297
-.4	.70942	1.03297	9.714	8.113	1.197	1.181	3.293
-.2	.90695	1.02712	8.915	7.428	1.200	1.187	3.292
-.0	1.10502	1.02256	8.230	6.838	1.203	1.194	3.294
.2	1.30361	1.01924	7.653	6.340	1.207	1.200	3.298
.4	1.50273	1.01719	7.174	5.923	1.211	1.208	3.305
.6	1.70246	1.01655	6.779	5.580	1.215	1.216	3.314
.8	1.90294	1.01766	6.457	5.298	1.219	1.224	3.328
1.0	2.10443	1.02116	6.194	5.069	1.222	1.235	3.348
1.2	2.30736	1.02807	5.982	4.884	1.225	1.249	3.378
1.4	2.51243	1.04015	5.811	4.735	1.227	1.267	3.423
1.6	2.72070	1.06014	5.675	4.616	1.229	1.293	3.491
1.8	2.93377	1.09253	5.569	4.522	1.232	1.331	3.596
2.0	3.15386	1.14425	5.490	4.449	1.234	1.385	3.754

Table 1 Continued

T = 3500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.6	-5.39100	1.26205	33.190	29.691	1.118	1.096	3.557
-6.4	-5.19464	1.25153	27.561	24.592	1.121	1.103	3.554
-6.2	-4.99759	1.24305	22.999	20.432	1.126	1.111	3.555
-6.0	-4.79998	1.23622	19.318	17.057	1.133	1.121	3.561
-5.8	-4.60192	1.23072	16.361	14.333	1.141	1.132	3.570
-5.6	-4.40348	1.22629	13.993	12.143	1.152	1.144	3.584
-5.4	-4.20476	1.22270	12.102	10.389	1.165	1.158	3.600
-5.2	-4.00580	1.21978	10.599	8.991	1.179	1.173	3.619
-5.0	-3.80666	1.21736	9.409	7.881	1.194	1.189	3.640
-4.8	-3.60738	1.21533	8.474	7.006	1.210	1.205	3.661
-4.6	-3.40802	1.21356	7.749	6.326	1.225	1.221	3.682
-4.4	-3.20859	1.21196	7.201	5.810	1.239	1.235	3.702
-4.2	-3.00914	1.21042	6.807	5.436	1.252	1.248	3.718
-4.0	-2.80971	1.20883	6.556	5.192	1.263	1.258	3.730
-3.8	-2.61035	1.20706	6.446	5.078	1.269	1.264	3.737
-3.6	-2.41111	1.20495	6.490	5.102	1.272	1.265	3.736
-3.4	-2.21206	1.20232	6.710	5.285	1.270	1.262	3.726
-3.2	-2.01329	1.19891	7.140	5.654	1.263	1.253	3.707
-3.0	-1.81492	1.19441	7.817	6.240	1.253	1.240	3.681
-2.8	-1.61709	1.18847	8.765	7.062	1.241	1.225	3.650
-2.6	-1.41992	1.18075	9.966	8.103	1.230	1.209	3.615
-2.4	-1.22352	1.17100	11.334	9.283	1.221	1.196	3.580
-2.2	-1.02793	1.15917	12.703	10.461	1.214	1.185	3.545
-2.0	-.83308	1.14549	13.859	11.456	1.210	1.177	3.512
-1.8	-.63880	1.13051	14.616	12.113	1.207	1.171	3.481
-1.6	-.44483	1.11493	14.879	12.356	1.204	1.168	3.452
-1.4	-.25088	1.09950	14.662	12.197	1.202	1.166	3.426
-1.2	-.05671	1.08486	14.063	11.716	1.200	1.167	3.403
-1.0	.13790	1.07146	13.215	11.022	1.199	1.168	3.385
-.8	.33305	1.05956	12.246	10.220	1.198	1.171	3.370
-.6	.52882	1.04928	11.257	9.394	1.198	1.175	3.359
-.4	.72521	1.04061	10.316	8.602	1.199	1.179	3.352
-.2	.92222	1.03347	9.461	7.877	1.201	1.185	3.348
-.0	1.11983	1.02779	8.710	7.237	1.204	1.191	3.347
.2	1.31802	1.02352	8.065	6.684	1.207	1.197	3.349
.4	1.51680	1.02066	7.522	6.216	1.210	1.205	3.354
.6	1.71625	1.01936	7.069	5.825	1.213	1.212	3.363
.8	1.91649	1.01993	6.696	5.502	1.217	1.221	3.376
1.0	2.11778	1.02296	6.391	5.237	1.220	1.232	3.396
1.2	2.32056	1.02951	6.143	5.022	1.223	1.246	3.426
1.4	2.52549	1.04126	5.942	4.848	1.226	1.264	3.471
1.6	2.73365	1.06102	5.781	4.708	1.228	1.291	3.541
1.8	2.94661	1.09315	5.654	4.596	1.230	1.329	3.646
2.0	3.16660	1.14466	5.558	4.510	1.232	1.382	3.806

Table 1 Continued

T = 3600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.56273	1.30952	55.062	49.008	1.124	1.084	3.655
-6.6	-5.36922	1.29009	45.619	40.698	1.121	1.088	3.635
-6.4	-5.17459	1.27423	37.769	33.718	1.120	1.093	3.621
-6.2	-4.97900	1.26136	31.315	27.926	1.121	1.099	3.613
-6.0	-4.78260	1.25096	26.054	23.168	1.125	1.107	3.610
-5.8	-4.58553	1.24256	21.792	19.287	1.130	1.115	3.612
-5.6	-4.38790	1.23579	18.356	16.141	1.137	1.125	3.618
-5.4	-4.18982	1.23032	15.596	13.603	1.147	1.137	3.628
-5.2	-3.99139	1.22591	13.389	11.565	1.158	1.150	3.642
-5.0	-3.79266	1.22231	11.629	9.934	1.171	1.164	3.659
-4.8	-3.59371	1.21935	10.232	8.637	1.185	1.179	3.679
-4.6	-3.39460	1.21688	9.132	7.611	1.200	1.195	3.699
-4.4	-3.19536	1.21475	8.273	6.809	1.215	1.210	3.720
-4.2	-2.99604	1.21285	7.618	6.194	1.230	1.225	3.740
-4.0	-2.79668	1.21106	7.137	5.739	1.244	1.239	3.758
-3.8	-2.59733	1.20925	6.813	5.428	1.255	1.250	3.772
-3.6	-2.39803	1.20729	6.641	5.257	1.263	1.258	3.781
-3.4	-2.19885	1.20502	6.629	5.229	1.268	1.261	3.782
-3.2	-1.99986	1.20222	6.794	5.360	1.268	1.259	3.775
-3.0	-1.80115	1.19866	7.166	5.674	1.263	1.252	3.759
-2.8	-1.60284	1.19401	7.775	6.197	1.255	1.241	3.735
-2.6	-1.40505	1.18793	8.640	6.944	1.244	1.228	3.705
-2.4	-1.20793	1.18010	9.744	7.896	1.234	1.213	3.671
-2.2	-1.01156	1.17025	11.004	8.978	1.226	1.200	3.636
-2.0	-.81600	1.15837	12.263	10.058	1.219	1.190	3.602
-1.8	-.62116	1.14469	13.325	10.969	1.215	1.181	3.568
-1.6	-.42687	1.12973	14.017	11.570	1.212	1.176	3.536
-1.4	-.23287	1.11422	14.250	11.788	1.209	1.172	3.507
-1.2	-.03890	1.09888	14.041	11.636	1.207	1.171	3.480
-1.0	.15532	1.08433	13.478	11.187	1.205	1.171	3.457
-.8	.34997	1.07105	12.685	10.542	1.203	1.173	3.438
-.6	.54517	1.05928	11.781	9.798	1.202	1.175	3.424
-.4	.74099	1.04915	10.858	9.031	1.202	1.179	3.413
-.2	.93747	1.04066	9.980	8.295	1.203	1.184	3.405
-.0	1.13458	1.03377	9.182	7.622	1.205	1.189	3.402
.2	1.33233	1.02844	8.481	7.027	1.207	1.195	3.402
.4	1.53075	1.02468	7.879	6.514	1.210	1.202	3.405
.6	1.72987	1.02263	7.372	6.079	1.213	1.210	3.413
.8	1.92985	1.02257	6.949	5.715	1.216	1.219	3.425
1.0	2.13092	1.02508	6.600	5.415	1.219	1.230	3.445
1.2	2.33350	1.03120	6.315	5.169	1.222	1.243	3.474
1.4	2.53828	1.04260	6.083	4.968	1.224	1.262	3.520
1.6	2.74631	1.06205	5.895	4.806	1.227	1.289	3.589
1.8	2.95915	1.09392	5.746	4.677	1.229	1.327	3.696
2.0	3.17902	1.14517	5.632	4.574	1.231	1.380	3.858

Table 1 Continued

T = 3700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.53545	1.35673	73.310	64.555	1.136	1.081	3.767
-6.6	-5.34442	1.32900	61.257	54.212	1.130	1.084	3.733
-6.4	-5.15198	1.30606	50.914	45.221	1.126	1.087	3.706
-6.2	-4.95829	1.28724	42.212	37.566	1.124	1.092	3.687
-6.0	-4.76349	1.27190	34.994	31.152	1.123	1.097	3.674
-5.8	-4.56776	1.25945	29.071	25.839	1.125	1.104	3.667
-5.6	-4.37125	1.24938	24.249	21.480	1.129	1.111	3.665
-5.4	-4.17409	1.24125	20.346	17.930	1.135	1.120	3.668
-5.2	-3.97639	1.23468	17.203	15.055	1.143	1.131	3.676
-5.0	-3.77826	1.22936	14.682	12.739	1.153	1.143	3.687
-4.8	-3.57979	1.22504	12.668	10.882	1.164	1.156	3.702
-4.6	-3.38105	1.22150	11.067	9.399	1.177	1.171	3.720
-4.4	-3.18210	1.21854	9.801	8.224	1.192	1.186	3.739
-4.2	-2.98300	1.21602	8.810	7.302	1.207	1.201	3.760
-4.0	-2.78380	1.21379	8.048	6.589	1.221	1.217	3.780
-3.8	-2.58454	1.21172	7.481	6.055	1.235	1.231	3.798
-3.6	-2.38528	1.20967	7.087	5.680	1.248	1.243	3.813
-3.4	-2.18606	1.20748	6.858	5.455	1.257	1.251	3.824
-3.2	-1.98696	1.20499	6.795	5.379	1.263	1.256	3.827
-3.0	-1.78805	1.20198	6.913	5.466	1.265	1.256	3.822
-2.8	-1.58942	1.19820	7.236	5.735	1.262	1.251	3.808
-2.6	-1.39119	1.19332	7.790	6.207	1.255	1.242	3.786
-2.4	-1.19349	1.18701	8.589	6.892	1.246	1.229	3.757
-2.2	-.99645	1.17894	9.609	7.766	1.237	1.216	3.724
-2.0	-.80017	1.16889	10.769	8.758	1.230	1.204	3.690
-1.8	-.60467	1.15684	11.919	9.740	1.224	1.194	3.655
-1.6	-.40987	1.14306	12.875	10.560	1.219	1.186	3.621
-1.4	-.21560	1.12809	13.484	11.087	1.216	1.180	3.589
-1.2	-.02159	1.11263	13.666	11.262	1.213	1.177	3.559
-1.0	.17243	1.09741	13.442	11.099	1.211	1.175	3.533
-.8	.36670	1.08305	12.897	10.668	1.209	1.176	3.510
-.6	.56143	1.06997	12.148	10.061	1.207	1.177	3.491
-.4	.75673	1.05845	11.301	9.367	1.206	1.180	3.476
-.2	.95267	1.04860	10.440	8.656	1.206	1.184	3.466
-.0	1.14927	1.04045	9.625	7.975	1.207	1.189	3.459
.2	1.34657	1.03399	8.885	7.354	1.208	1.194	3.456
.4	1.54458	1.02925	8.236	6.805	1.210	1.200	3.458
.6	1.74336	1.02636	7.679	6.332	1.213	1.208	3.463
.8	1.94303	1.02560	7.209	5.932	1.215	1.217	3.475
1.0	2.14385	1.02754	6.818	5.598	1.218	1.227	3.493
1.2	2.34623	1.03316	6.496	5.321	1.221	1.241	3.523
1.4	2.55083	1.04418	6.232	5.094	1.223	1.260	3.568
1.6	2.75870	1.06326	6.017	4.910	1.226	1.287	3.638
1.8	2.97141	1.09484	5.845	4.762	1.228	1.325	3.746
2.0	3.19116	1.14580	5.712	4.644	1.230	1.379	3.909

Table 1 Continued

T = 3800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.50457	1.41838		81.077		1.080	3.902
-6.6	-5.31623	1.38079	79.405	69.451	1.143	1.081	3.852
-6.4	-5.12633	1.34907	66.787	58.760	1.137	1.084	3.812
-6.2	-4.93493	1.32263	55.755	49.278	1.131	1.087	3.780
-6.0	-4.74215	1.30080	46.342	41.086	1.128	1.091	3.755
-5.8	-4.54816	1.28293	38.457	34.141	1.126	1.096	3.738
-5.6	-4.35312	1.26837	31.936	28.344	1.127	1.102	3.726
-5.4	-4.15718	1.25656	26.600	23.555	1.129	1.109	3.721
-5.2	-3.96050	1.24700	22.260	19.635	1.134	1.117	3.721
-5.0	-3.76320	1.23927	18.756	16.447	1.140	1.127	3.725
-4.8	-3.56539	1.23302	15.938	13.871	1.149	1.138	3.734
-4.6	-3.36719	1.22793	13.682	11.800	1.159	1.151	3.747
-4.4	-3.16867	1.22376	11.884	10.142	1.172	1.164	3.763
-4.2	-2.96990	1.22029	10.461	8.826	1.185	1.179	3.781
-4.0	-2.77095	1.21735	9.343	7.789	1.200	1.194	3.801
-3.8	-2.57187	1.21476	8.479	6.983	1.214	1.209	3.821
-3.6	-2.37272	1.21238	7.831	6.375	1.228	1.224	3.839
-3.4	-2.17356	1.21005	7.372	5.941	1.241	1.236	3.855
-3.2	-1.97444	1.20761	7.090	5.666	1.251	1.246	3.867
-3.0	-1.77543	1.20486	6.984	5.551	1.258	1.252	3.871
-2.8	-1.57661	1.20159	7.064	5.602	1.261	1.253	3.868
-2.6	-1.37808	1.19752	7.351	5.835	1.260	1.249	3.856
-2.4	-1.17996	1.19234	7.865	6.269	1.255	1.241	3.835
-2.2	-.98239	1.18571	8.613	6.905	1.247	1.230	3.807
-2.0	-.78547	1.17730	9.565	7.717	1.239	1.218	3.775
-1.8	-.58931	1.16694	10.635	8.629	1.232	1.207	3.741
-1.6	-.39392	1.15463	11.679	9.519	1.227	1.197	3.706
-1.4	-.19919	1.14069	12.528	10.244	1.223	1.189	3.672
-1.2	-.00495	1.12567	13.042	10.691	1.220	1.184	3.639
-1.0	.18907	1.11028	13.159	10.811	1.217	1.181	3.610
-.8	.38314	1.09523	12.905	10.624	1.215	1.180	3.583
-.6	.57751	1.08112	12.365	10.199	1.212	1.180	3.561
-.4	.77235	1.06835	11.647	9.620	1.211	1.182	3.542
-.2	.96779	1.05720	10.849	8.968	1.210	1.185	3.528
-.0	1.16391	1.04778	10.046	8.306	1.209	1.189	3.518
.2	1.36073	1.04015	9.288	7.676	1.210	1.194	3.512
.4	1.55831	1.03437	8.604	7.104	1.211	1.199	3.511
.6	1.75671	1.03057	8.005	6.600	1.213	1.206	3.515
.8	1.95607	1.02903	7.491	6.166	1.215	1.215	3.525
1.0	2.15661	1.03032	7.059	5.799	1.217	1.226	3.542
1.2	2.35875	1.03541	6.700	5.493	1.220	1.240	3.571
1.4	2.56315	1.04596	6.403	5.241	1.222	1.258	3.616
1.6	2.77086	1.06467	6.160	5.033	1.224	1.285	3.687
1.8	2.98341	1.09590	5.965	4.866	1.226	1.323	3.796
2.0	3.20303	1.14655	5.804	4.731	1.227	1.377	3.961

Table 1 Continued

T = 3900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.47071	1.49406	111.476	95.607	1.166	1.081	4.058
-6.6	-5.28486	1.44619	97.853	84.443	1.159	1.081	3.993
-6.4	-5.09754	1.40457	84.139	73.107	1.151	1.083	3.938
-6.2	-4.90865	1.36908	71.300	62.347	1.144	1.085	3.892
-6.0	-4.71822	1.33926	59.822	52.593	1.137	1.087	3.854
-5.8	-4.52632	1.31449	49.878	44.026	1.133	1.091	3.824
-5.6	-4.33311	1.29411	41.458	36.681	1.130	1.095	3.802
-5.4	-4.13874	1.27744	34.440	30.491	1.130	1.101	3.787
-5.2	-3.94338	1.26388	28.660	25.342	1.131	1.107	3.778
-5.0	-3.74717	1.25288	23.941	21.105	1.134	1.115	3.774
-4.8	-3.55027	1.24397	20.116	17.646	1.140	1.124	3.776
-4.6	-3.35280	1.23675	17.032	14.842	1.148	1.135	3.783
-4.4	-3.15487	1.23087	14.559	12.580	1.157	1.146	3.793
-4.2	-2.95657	1.22606	12.584	10.768	1.169	1.160	3.808
-4.0	-2.75799	1.22207	11.018	9.324	1.182	1.174	3.825
-3.8	-2.55919	1.21868	9.785	8.184	1.196	1.189	3.843
-3.6	-2.36025	1.21572	8.830	7.297	1.210	1.204	3.863
-3.4	-2.16122	1.21300	8.110	6.623	1.224	1.218	3.881
-3.2	-1.96216	1.21037	7.594	6.136	1.237	1.231	3.898
-3.0	-1.76314	1.20764	7.267	5.820	1.249	1.241	3.910
-2.8	-1.56424	1.20460	7.125	5.672	1.256	1.248	3.915
-2.6	-1.36553	1.20102	7.176	5.695	1.260	1.250	3.913
-2.4	-1.16713	1.19661	7.436	5.902	1.260	1.247	3.901
-2.2	-.96915	1.19106	7.920	6.306	1.256	1.240	3.881
-2.0	-.77173	1.18401	8.627	6.903	1.250	1.230	3.854
-1.8	-.57497	1.17519	9.519	7.660	1.243	1.219	3.823
-1.6	-.37897	1.16442	10.504	8.496	1.236	1.209	3.789
-1.4	-.18371	1.15180	11.441	9.292	1.231	1.200	3.754
-1.2	.01093	1.13765	12.175	9.918	1.228	1.193	3.720
-1.0	.20513	1.12257	12.584	10.278	1.224	1.188	3.688
-.8	.39918	1.10728	12.625	10.334	1.222	1.185	3.658
-.6	.59332	1.09246	12.332	10.115	1.219	1.184	3.632
-.4	.78781	1.07868	11.789	9.687	1.217	1.185	3.610
-.2	.98281	1.06634	11.096	9.130	1.215	1.187	3.592
-.0	1.17846	1.05569	10.341	8.516	1.214	1.190	3.579
.2	1.37482	1.04688	9.592	7.901	1.214	1.194	3.570
.4	1.57196	1.04002	8.890	7.320	1.214	1.199	3.566
.6	1.76996	1.03525	8.261	6.796	1.216	1.206	3.568
.8	1.96897	1.03287	7.711	6.335	1.217	1.214	3.576
1.0	2.16921	1.03345	7.241	5.940	1.219	1.225	3.592
1.2	2.37110	1.03795	6.846	5.606	1.221	1.238	3.620
1.4	2.57527	1.04798	6.517	5.328	1.223	1.257	3.665
1.6	2.78279	1.06628	6.247	5.099	1.225	1.284	3.736
1.8	2.99519	1.09714	6.027	4.911	1.227	1.322	3.846
2.0	3.21465	1.14744		4.760		1.376	4.012

Table 1 Continued

T = 4000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.43529	1.58052	123.119	104.686	1.176	1.082	4.230
-6.6	-5.25113	1.52390	113.269	96.637	1.172	1.082	4.152
-6.4	-5.06600	1.47261	100.911	86.578	1.166	1.083	4.083
-6.2	-4.87953	1.42742	87.752	75.786	1.158	1.084	4.023
-6.0	-4.69154	1.38848	74.969	65.179	1.150	1.086	3.971
-5.8	-4.50199	1.35550	63.262	55.328	1.143	1.088	3.928
-5.6	-4.31091	1.32793	52.952	46.530	1.138	1.091	3.894
-5.4	-4.11843	1.30513	44.116	38.891	1.134	1.096	3.867
-5.2	-3.92471	1.28641	36.689	32.392	1.133	1.100	3.848
-5.0	-3.72990	1.27113	30.535	26.949	1.133	1.106	3.836
-4.8	-3.53416	1.25871	25.486	22.446	1.135	1.114	3.829
-4.6	-3.33765	1.24863	21.380	18.754	1.140	1.122	3.828
-4.4	-3.14051	1.24045	18.062	15.750	1.147	1.132	3.833
-4.2	-2.94284	1.23380	15.394	13.322	1.156	1.143	3.841
-4.0	-2.74477	1.22834	13.261	11.372	1.166	1.156	3.854
-3.8	-2.54637	1.22381	11.566	9.815	1.178	1.170	3.870
-3.6	-2.34774	1.21997	10.231	8.584	1.192	1.184	3.887
-3.4	-2.14893	1.21662	9.194	7.624	1.206	1.199	3.906
-3.2	-1.95003	1.21356	8.409	6.892	1.220	1.213	3.924
-3.0	-1.75108	1.21060	7.843	6.360	1.233	1.226	3.940
-2.8	-1.55218	1.20755	7.478	6.009	1.244	1.237	3.952
-2.6	-1.35339	1.20419	7.308	5.834	1.253	1.244	3.958
-2.4	-1.15482	1.20024	7.338	5.836	1.257	1.247	3.956
-2.2	-.95656	1.19544	7.579	6.024	1.258	1.245	3.946
-2.0	-.75875	1.18943	8.040	6.405	1.255	1.239	3.926
-1.8	-.56151	1.18189	8.713	6.969	1.250	1.230	3.900
-1.6	-.36495	1.17257	9.550	7.675	1.244	1.220	3.868
-1.4	-.16913	1.16133	10.453	8.437	1.239	1.210	3.834
-1.2	.02598	1.14833	11.283	9.140	1.234	1.202	3.800
-1.0	.22051	1.13396	11.898	9.666	1.231	1.196	3.766
-.8	.41468	1.11884	12.199	9.935	1.228	1.191	3.734
-.6	.60876	1.10369	12.160	9.925	1.225	1.189	3.705
-.4	.80301	1.08918	11.824	9.671	1.223	1.188	3.679
-.2	.99766	1.07585	11.275	9.239	1.220	1.189	3.658
-.0	1.19288	1.06407	10.605	8.703	1.219	1.191	3.641
.2	1.38880	1.05411	9.892	8.125	1.217	1.195	3.630
.4	1.58551	1.04615	9.194	7.554	1.217	1.200	3.623
.6	1.78311	1.04038	8.547	7.020	1.218	1.206	3.622
.8	1.98175	1.03713	7.970	6.541	1.218	1.214	3.628
1.0	2.18167	1.03694	7.469	6.123	1.220	1.224	3.643
1.2	2.38328	1.04078	7.041	5.765	1.221	1.237	3.670
1.4	2.58722	1.05028	6.682	5.463	1.223	1.256	3.715
1.6	2.79453	1.06809	6.384	5.212	1.225	1.283	3.785
1.8	3.00674	1.09855	6.140	5.005	1.227	1.321	3.895
2.0	3.22604	1.14848		4.837		1.374	4.063

Table 1 Continued

T = 4100

Log ρ	Log p	Z	C_p/R	C_V/R	γ	$γ_E$	a/a_a
-6.8	-5.40033	1.67123	123.181	104.541	1.178	1.085	4.410
-6.6	-5.21656	1.60990	120.781	102.407	1.179	1.083	4.324
-6.4	-5.03270	1.55119	113.224	96.209	1.177	1.084	4.245
-6.2	-4.84810	1.49712	102.377	87.403	1.171	1.084	4.172
-6.0	-4.66233	1.44887	90.037	77.345	1.164	1.085	4.106
-5.8	-4.47511	1.40686	77.571	67.078	1.156	1.087	4.049
-5.6	-4.28633	1.37099	65.852	57.302	1.149	1.089	4.002
-5.4	-4.09599	1.34082	55.348	48.419	1.143	1.092	3.963
-5.2	-3.90419	1.31574	46.236	40.605	1.139	1.096	3.932
-5.0	-3.71107	1.29507	38.512	33.897	1.136	1.101	3.909
-4.8	-3.51678	1.27815	32.070	28.239	1.136	1.106	3.894
-4.6	-3.32149	1.26437	26.763	23.533	1.137	1.113	3.884
-4.4	-3.12536	1.25316	22.431	19.658	1.141	1.121	3.881
-4.2	-2.92853	1.24405	18.921	16.496	1.147	1.131	3.883
-4.0	-2.73113	1.23662	16.094	13.934	1.155	1.141	3.890
-3.8	-2.53327	1.23052	13.829	11.872	1.165	1.154	3.901
-3.6	-2.33506	1.22546	12.028	10.224	1.176	1.167	3.916
-3.4	-2.13659	1.22117	10.608	8.919	1.189	1.181	3.932
-3.2	-1.93792	1.21743	9.504	7.899	1.203	1.196	3.950
-3.0	-1.73914	1.21401	8.667	7.121	1.217	1.210	3.968
-2.8	-1.54032	1.21071	8.062	6.553	1.230	1.223	3.984
-2.6	-1.34154	1.20731	7.670	6.177	1.242	1.233	3.996
-2.4	-1.14289	1.20357	7.481	5.983	1.250	1.241	4.001
-2.2	-.94446	1.19922	7.497	5.972	1.256	1.244	3.999
-2.0	-.74638	1.19395	7.729	6.149	1.257	1.243	3.989
-1.8	-.54876	1.18742	8.176	6.515	1.255	1.238	3.969
-1.6	-.35173	1.17932	8.820	7.051	1.251	1.230	3.943
-1.4	-.15539	1.16942	9.604	7.709	1.246	1.220	3.912
-1.2	.04022	1.15767	10.424	8.398	1.241	1.212	3.878
-1.0	.23517	1.14427	11.145	9.007	1.237	1.204	3.844
-.8	.42960	1.12969	11.638	9.431	1.234	1.199	3.810
-.6	.62375	1.11458	11.829	9.609	1.231	1.195	3.779
-.4	.81789	1.09965	11.710	9.533	1.228	1.193	3.750
-.2	1.01229	1.08555	11.332	9.245	1.226	1.193	3.726
-.0	1.20716	1.07280	10.777	8.809	1.223	1.194	3.706
.2	1.40267	1.06176	10.128	8.291	1.222	1.197	3.691
.4	1.59895	1.05272	9.455	7.747	1.221	1.201	3.681
.6	1.79615	1.04594	8.807	7.218	1.220	1.206	3.678
.8	1.99441	1.04177	8.212	6.729	1.220	1.214	3.682
1.0	2.19400	1.04077	7.685	6.293	1.221	1.223	3.695
1.2	2.39530	1.04391	7.229	5.914	1.222	1.237	3.720
1.4	2.59899	1.05281	6.842	5.591	1.224	1.255	3.764
1.6	2.80608	1.07013	6.516	5.320	1.225	1.282	3.835
1.8	3.01809	1.10013	6.249	5.094	1.227	1.320	3.945
2.0	3.23721	1.14966		4.910		1.373	4.114

Table 1 Continued

T = 4200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.36809	1.75713	110.367	94.141	1.172	1.088	4.583
-6.6	-5.18319	1.69711	116.992	99.259	1.179	1.087	4.500
-6.4	-4.99925	1.63550	117.252	99.218	1.182	1.086	4.416
-6.2	-4.81551	1.57538	111.918	94.787	1.181	1.086	4.334
-6.0	-4.63129	1.51916	102.661	87.275	1.176	1.086	4.257
-5.8	-4.44606	1.46837	91.292	78.054	1.170	1.087	4.187
-5.6	-4.25947	1.42372	79.312	68.251	1.162	1.089	4.126
-5.4	-4.07135	1.38530	67.747	58.671	1.155	1.091	4.074
-5.2	-3.88167	1.35279	57.190	49.811	1.148	1.093	4.031
-5.0	-3.69047	1.32563	47.918	41.921	1.143	1.097	3.996
-4.8	-3.49790	1.30317	39.988	35.083	1.140	1.101	3.970
-4.6	-3.30408	1.28473	33.333	29.276	1.139	1.107	3.952
-4.4	-3.10921	1.26967	27.825	24.420	1.139	1.113	3.940
-4.2	-2.91342	1.25740	23.314	20.407	1.142	1.121	3.934
-4.0	-2.71689	1.24740	19.650	17.122	1.148	1.130	3.934
-3.8	-2.51974	1.23925	16.693	14.453	1.155	1.140	3.940
-3.6	-2.32209	1.23254	14.321	12.301	1.164	1.152	3.949
-3.4	-2.12406	1.22697	12.434	10.579	1.175	1.165	3.962
-3.2	-1.92574	1.22224	10.944	9.214	1.188	1.179	3.978
-3.0	-1.72722	1.21809	9.786	8.147	1.201	1.193	3.995
-2.8	-1.52857	1.21431	8.908	7.333	1.215	1.207	4.012
-2.6	-1.32988	1.21065	8.273	6.739	1.228	1.220	4.027
-2.4	-1.13124	1.20687	7.860	6.343	1.239	1.231	4.039
-2.2	-.93273	1.20272	7.660	6.138	1.248	1.238	4.044
-2.0	-.73447	1.19791	7.671	6.120	1.254	1.242	4.042
-1.8	-.53658	1.19211	7.897	6.290	1.255	1.241	4.031
-1.6	-.33918	1.18499	8.333	6.643	1.254	1.236	4.011
-1.4	-.14240	1.17625	8.949	7.153	1.251	1.229	3.984
-1.2	.05370	1.16572	9.677	7.759	1.247	1.221	3.953
-1.0	.24909	1.15342	10.407	8.371	1.243	1.213	3.919
-.8	.44387	1.13963	11.011	8.882	1.240	1.206	3.885
-.6	.63821	1.12488	11.380	9.202	1.237	1.201	3.852
-.4	.83237	1.10986	11.462	9.290	1.234	1.198	3.822
-.2	1.02662	1.09526	11.265	9.151	1.231	1.197	3.794
-.0	1.22122	1.08172	10.849	8.832	1.228	1.197	3.771
.2	1.41637	1.06972	10.292	8.394	1.226	1.199	3.753
.4	1.61227	1.05966	9.668	7.896	1.224	1.202	3.741
.6	1.80907	1.05188	9.036	7.387	1.223	1.207	3.734
.8	2.00696	1.04677	8.437	6.900	1.223	1.214	3.736
1.0	2.20619	1.04494	7.893	6.454	1.223	1.224	3.747
1.2	2.40719	1.04734	7.414	6.060	1.223	1.237	3.772
1.4	2.61060	1.05559	7.002	5.720	1.224	1.255	3.814
1.6	2.81745	1.07236	6.654	5.430	1.225	1.281	3.884
1.8	3.02925	1.10192	6.363	5.188	1.227	1.319	3.995
2.0	3.24818	1.15100		4.988		1.373	4.165

Table 1 Continued

T = 4300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.34018	1.83018	88.530	76.162	1.162	1.094	4.746
-6.6	-5.15287	1.77750	101.992	87.063	1.171	1.091	4.670
-6.4	-4.96744	1.71886	110.458	93.675	1.179	1.089	4.588
-6.2	-4.78324	1.65743	112.828	95.326	1.184	1.088	4.503
-6.0	-4.59952	1.59645	109.452	92.445	1.184	1.088	4.419
-5.8	-4.41555	1.53862	101.719	86.160	1.181	1.088	4.339
-5.6	-4.23073	1.48576	91.380	77.800	1.175	1.089	4.265
-5.4	-4.04465	1.43887	80.004	68.542	1.167	1.090	4.200
-5.2	-3.85710	1.39824	68.730	59.265	1.160	1.092	4.144
-5.0	-3.66797	1.36366	58.263	50.537	1.153	1.095	4.097
-4.8	-3.47731	1.33465	48.959	42.670	1.147	1.098	4.060
-4.6	-3.28521	1.31058	40.935	35.794	1.144	1.102	4.030
-4.4	-3.09183	1.29075	34.161	29.919	1.142	1.107	4.009
-4.2	-2.89733	1.27452	28.530	24.981	1.142	1.114	3.995
-4.0	-2.70187	1.26127	23.905	20.886	1.145	1.121	3.987
-3.8	-2.50561	1.25047	20.139	17.524	1.149	1.130	3.986
-3.6	-2.30869	1.24163	17.095	14.788	1.156	1.140	3.990
-3.4	-2.11124	1.23435	14.652	12.578	1.165	1.152	3.998
-3.2	-1.91338	1.22828	12.706	10.808	1.176	1.164	4.010
-3.0	-1.71521	1.22312	11.170	9.405	1.188	1.178	4.025
-2.8	-1.51682	1.21858	9.976	8.307	1.201	1.192	4.041
-2.6	-1.31831	1.21442	9.072	7.471	1.214	1.205	4.057
-2.4	-1.11976	1.21038	8.422	6.863	1.227	1.218	4.072
-2.2	-.92126	1.20619	8.001	6.460	1.239	1.229	4.082
-2.0	-.72292	1.20159	7.800	6.253	1.247	1.236	4.087
-1.8	-.52485	1.19625	7.815	6.236	1.253	1.240	4.083
-1.6	-.32718	1.18986	8.044	6.407	1.256	1.239	4.071
-1.4	-.13003	1.18208	8.473	6.752	1.255	1.235	4.051
-1.2	.06649	1.17264	9.062	7.235	1.252	1.228	4.024
-1.0	.26232	1.16144	9.730	7.789	1.249	1.221	3.993
-.8	.45749	1.14859	10.366	8.321	1.246	1.214	3.959
-.6	.65211	1.13445	10.851	8.732	1.243	1.208	3.926
-.4	.84639	1.11962	11.097	8.951	1.240	1.204	3.893
-.2	1.04060	1.10479	11.074	8.953	1.237	1.202	3.864
-.0	1.23502	1.09068	10.807	8.757	1.234	1.201	3.838
.2	1.42989	1.07787	10.359	8.412	1.232	1.202	3.817
.4	1.62544	1.06688	9.803	7.974	1.229	1.205	3.801
.6	1.82186	1.05813	9.205	7.498	1.228	1.209	3.792
.8	2.01938	1.05209	8.614	7.024	1.226	1.215	3.791
1.0	2.21826	1.04939	8.062	6.577	1.226	1.224	3.801
1.2	2.41895	1.05104	7.567	6.172	1.226	1.237	3.823
1.4	2.62207	1.05864	7.134	5.817	1.226	1.255	3.865
1.6	2.82866	1.07482	6.763	5.512	1.227	1.281	3.935
1.8	3.04024	1.10385	6.452	5.254	1.228	1.319	4.046
2.0	3.25896	1.15249		5.039		1.372	4.217

Table 1 Continued

T = 4400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.31720	1.88579	64.725	56.098	1.154	1.104	4.895
-6.6	-5.12691	1.84408	80.467	69.260	1.162	1.098	4.827
-6.4	-4.93896	1.79362	94.396	80.592	1.171	1.094	4.752
-6.2	-4.75304	1.73640	104.076	88.229	1.180	1.092	4.671
-6.0	-4.56857	1.67543	108.084	91.199	1.185	1.091	4.585
-5.8	-4.38479	1.61401	106.372	89.632	1.187	1.090	4.499
-5.6	-4.20096	1.55502	100.032	84.459	1.184	1.090	4.416
-5.4	-4.01644	1.50056	90.704	76.935	1.179	1.091	4.340
-5.2	-3.83077	1.45187	79.984	68.247	1.172	1.092	4.271
-5.0	-3.64366	1.40940	69.082	59.327	1.164	1.094	4.212
-4.8	-3.45500	1.37308	58.796	50.796	1.157	1.096	4.162
-4.6	-3.26478	1.34249	49.546	43.025	1.152	1.100	4.121
-4.4	-3.07310	1.31702	41.508	36.176	1.147	1.104	4.089
-4.2	-2.88009	1.29600	34.684	30.288	1.145	1.109	4.066
-4.0	-2.68591	1.27874	28.990	25.321	1.145	1.115	4.050
-3.8	-2.49073	1.26464	24.299	21.186	1.147	1.122	4.040
-3.6	-2.29471	1.25311	20.472	17.783	1.151	1.131	4.037
-3.4	-2.09799	1.24366	17.374	15.009	1.158	1.140	4.040
-3.2	-1.90072	1.23586	14.885	12.766	1.166	1.152	4.047
-3.0	-1.70302	1.22934	12.902	10.968	1.176	1.164	4.058
-2.8	-1.50500	1.22376	11.338	9.542	1.188	1.177	4.072
-2.6	-1.30675	1.21884	10.125	8.430	1.201	1.191	4.087
-2.4	-1.10837	1.21430	9.209	7.584	1.214	1.205	4.103
-2.2	-.90996	1.20985	8.554	6.971	1.227	1.217	4.116
-2.0	-.71162	1.20523	8.136	6.570	1.238	1.228	4.126
-1.8	-.51347	1.20012	7.944	6.369	1.247	1.235	4.129
-1.6	-.31561	1.19421	7.970	6.361	1.253	1.238	4.124
-1.4	-.11819	1.18715	8.208	6.538	1.255	1.237	4.111
-1.2	.07869	1.17865	8.632	6.877	1.255	1.233	4.090
-1.0	.27493	1.16847	9.191	7.333	1.253	1.227	4.062
-.8	.47049	1.15660	9.795	7.832	1.251	1.221	4.031
-.6	.66544	1.14322	10.333	8.281	1.248	1.215	3.997
-.4	.85993	1.12881	10.698	8.593	1.245	1.210	3.964
-.2	1.05420	1.11402	10.826	8.716	1.242	1.207	3.933
-.0	1.24853	1.09956	10.707	8.640	1.239	1.205	3.904
.2	1.44318	1.08612	10.379	8.395	1.236	1.205	3.881
.4	1.63844	1.07431	9.907	8.030	1.234	1.207	3.862
.6	1.83452	1.06466	9.358	7.598	1.232	1.211	3.851
.8	2.03167	1.05770	8.787	7.145	1.230	1.216	3.847
1.0	2.23021	1.05415	8.237	6.703	1.229	1.225	3.855
1.2	2.43056	1.05501	7.730	6.293	1.228	1.237	3.875
1.4	2.63340	1.06191	7.279	5.927	1.228	1.255	3.916
1.6	2.83973	1.07750	6.888	5.607	1.228	1.281	3.985
1.8	3.05106	1.10599	6.556	5.335	1.229	1.318	4.096
2.0	3.26956	1.15414		5.105		1.372	4.268

Table 1 Continued

T = 4500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.29859	1.92462	44.776	38.822	1.153	1.120	5.036
-6.6	-5.10548	1.89433	58.787	50.890	1.155	1.109	4.972
-6.4	-4.91463	1.85481	73.909	63.588	1.162	1.102	4.904
-6.2	-4.72615	1.80629	87.886	75.009	1.172	1.097	4.830
-6.0	-4.53979	1.75042	98.278	83.260	1.180	1.095	4.748
-5.8	-4.35504	1.69003	103.426	87.166	1.187	1.093	4.662
-5.6	-4.17117	1.62842	102.996	86.619	1.189	1.092	4.575
-5.4	-3.98742	1.56862	97.822	82.372	1.188	1.092	4.490
-5.2	-3.80311	1.51294	89.407	75.588	1.183	1.093	4.411
-5.0	-3.61775	1.46280	79.323	67.448	1.176	1.094	4.339
-4.8	-3.43100	1.41883	68.830	58.901	1.169	1.096	4.277
-4.6	-3.24272	1.38107	58.787	50.615	1.161	1.098	4.224
-4.4	-3.05287	1.34915	49.668	42.990	1.155	1.101	4.181
-4.2	-2.86154	1.32250	41.691	36.225	1.151	1.105	4.147
-4.0	-2.66884	1.30045	34.886	30.381	1.148	1.110	4.122
-3.8	-2.47494	1.28233	29.188	25.431	1.148	1.116	4.104
-3.6	-2.28000	1.26747	24.482	21.299	1.149	1.123	4.093
-3.4	-2.08418	1.25531	20.635	17.892	1.153	1.132	4.088
-3.2	-1.88765	1.24532	17.519	15.111	1.159	1.141	4.090
-3.0	-1.69055	1.23705	15.015	12.860	1.168	1.152	4.096
-2.8	-1.49299	1.23011	13.019	11.056	1.178	1.165	4.106
-2.6	-1.29510	1.22415	11.447	9.626	1.189	1.178	4.119
-2.4	-1.09698	1.21885	10.230	8.512	1.202	1.191	4.134
-2.2	-.89875	1.21391	9.316	7.668	1.215	1.205	4.148
-2.0	-.70049	1.20904	8.668	7.063	1.227	1.217	4.160
-1.8	-.50233	1.20394	8.263	6.672	1.238	1.227	4.169
-1.6	-.30438	I.19828	8.088	6.485	1.247	1.234	4.171
-1.4	-.10676	1.19172	8.131	6.491	1.253	1.237	4.164
-1.2	.09040	1.18394	8.379	6.674	1.255	1.236	4.149
-1.0	.28698	1.17466	8.796	7.005	1.256	1.232	4.127
-.8	.48292	1.16372	9.317	7.429	1.254	1.227	4.098
-.6	.67821	1.15119	9.847	7.864	1.252	1.221	4.067
-.4	.87297	1.13738	10.278	8.225	1.250	1.216	4.034
-.2	1.06738	1.12283	10.521	8.438	1.247	1.212	4.001
-.0	1.26170	1.10825	10.536	8.470	1.244	1.209	3.971
.2	1.45623	1.09436	10.332	8.324	1.241	1.209	3.945
.4	1.65124	1.08187	9.955	8.040	1.238	1.210	3.924
.6	1.84702	1.07140	9.468	7.663	1.236	1.213	3.910
.8	2.04384	1.06359	8.932	7.242	1.233	1.218	3.904
1.0	2.24204	1.05917	8.393	6.814	1.232	1.226	3.909
1.2	2.44206	1.05924	7.884	6.406	1.231	1.238	3.928
1.4	2.64458	1.06542	7.421	6.034	1.230	1.255	3.967
1.6	2.85064	1.08036	7.014	5.704	1.230	1.281	4.035
1.8	3.06173	1.10830	6.664	5.418	1.230	1.318	4.146
2.0	3.28000	1.15594		5.176		1.371	4.319

Table 1 Continued

T = 4600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.28336	1.94997	30.376	26.068	1.165	1.143	5.177
-6.6	-5.08801	1.92923	40.930	35.368	1.157	1.125	5.111
-6.4	-4.89452	1.90050	53.962	46.620	1.157	1.114	5.046
-6.2	-4.70325	1.86267	68.364	58.758	1.163	1.106	4.977
-6.0	-4.51435	1.81568	82.118	70.032	1.173	1.101	4.903
-5.8	-4.32764	1.76095	92.840	78.571	1.182	1.097	4.821
-5.6	-4.14265	1.70113	98.737	83.090	1.188	1.096	4.735
-5.4	-3.95868	1.63949	99.252	83.304	1.191	1.095	4.646
-5.2	-3.77496	1.57916	95.024	79.807	1.191	1.095	4.560
-5.0	-3.59080	1.52259	87.413	73.678	1.186	1.095	4.478
-4.8	-3.40567	1.47137	77.946	66.057	1.180	1.096	4.404
-4.6	-3.21919	1.42626	67.897	57.904	1.173	1.098	4.340
-4.4	-3.03120	1.38737	58.158	49.904	1.165	1.100	4.285
-4.2	-2.84164	1.35441	49.246	42.485	1.159	1.103	4.239
-4.0	-2.65057	1.32683	41.405	35.863	1.155	1.107	4.203
-3.8	-2.45812	1.30396	34.689	30.121	1.152	1.112	4.176
-3.6	-2.26444	1.28513	29.050	25.241	1.151	1.118	4.157
-3.4	-2.06970	1.26966	24.385	21.160	1.152	1.125	4.145
-3.2	-1.87406	1.25698	20.567	17.789	1.156	1.133	4.139
-3.0	-1.67768	1.24653	17.472	15.034	1.162	1.143	4.140
-2.8	-1.48072	1.23786	14.983	12.804	1.170	1.154	4.145
-2.6	-1.28329	1.23054	13.001	11.016	1.180	1.166	4.154
-2.4	-1.08553	1.22421	11.442	9.602	1.192	1.179	4.166
-2.2	-.88755	1.21854	10.240	8.503	1.204	1.192	4.180
-2.0	-.68946	1.21320	9.344	7.677	1.217	1.205	4.194
-1.8	-.49136	1.20788	8.717	7.090	1.230	1.217	4.205
-1.6	-.29339	1.20226	8.336	6.720	1.240	1.227	4.212
-1.4	-.09566	1.19599	8.185	6.554	1.249	1.233	4.211
-1.2	.10169	1.18873	8.250	6.577	1.254	1.236	4.203
-1.0	.29856	1.18017	8.508	6.768	1.257	1.235	4.187
-.8	.49482	1.17007	8.912	7.086	1.258	1.231	4.163
-.6	.69046	1.15838	9.384	7.468	1.257	1.226	4.134
-.4	.88551	1.14525	9.828	7.833	1.255	1.221	4.102
-.2	1.08012	1.13112	10.146	8.101	1.252	1.217	4.069
-.0	1.27451	1.11661	10.270	8.217	1.250	1.214	4.038
.2	1.46898	1.10246	10.181	8.165	1.247	1.213	4.010
.4	1.66381	1.08944	9.903	7.961	1.244	1.213	3.987
.6	1.85933	1.07826	9.490	7.646	1.241	1.216	3.971
.8	2.05585	1.06964	8.999	7.266	1.239	1.220	3.962
1.0	2.25372	1.06442	8.483	6.861	1.236	1.228	3.965
1.2	2.45343	1.06370	7.979	6.461	1.235	1.239	3.982
1.4	2.65565	1.06915	7.511	6.087	1.234	1.257	4.020
1.6	2.86142	1.08343	7.092	5.751	1.233	1.282	4.087
1.8	3.07225	1.11078	6.727	5.456	1.233	1.319	4.198
2.0	3.29028	1.15790		5.201		1.372	4.371

Table 1 Continued

T = 4700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.27047	1.96597	21.113	17.743	1.190	1.174	5.326
-6.6	-5.07352	1.95223	28.353	24.211	1.171	1.149	5.250
-6.4	-4.87795	1.93240	38.134	32.838	1.161	1.131	5.182
-6.2	-4.68420	1.90479	50.353	43.413	1.160	1.118	5.115
-6.0	-4.49263	1.86816	64.089	55.011	1.165	1.109	5.046
-5.8	-4.30343	1.82231	77.496	66.024	1.174	1.104	4.972
-5.6	-4.11646	1.76845	88.287	74.632	1.183	1.100	4.890
-5.4	-3.93128	1.70910	94.609	79.498	1.190	1.098	4.802
-5.2	-3.74722	1.64750	95.749	80.221	1.194	1.097	4.713
-5.0	-3.56352	1.58683	92.215	77.278	1.193	1.097	4.625
-4.8	-3.37945	1.52965	85.247	71.666	1.190	1.097	4.541
-4.6	-3.19447	1.47766	76.311	64.491	1.183	1.098	4.466
-4.4	-3.00819	1.43172	66.677	56.699	1.176	1.100	4.399
-4.2	-2.82041	1.39201	57.249	48.985	1.169	1.102	4.342
-4.0	-2.63106	1.35827	48.571	41.786	1.162	1.105	4.295
-3.8	-2.44020	1.32999	40.902	35.334	1.158	1.109	4.257
-3.6	-2.24794	1.30651	34.315	29.720	1.155	1.114	4.229
-3.4	-2.05442	1.28713	28.774	24.939	1.154	1.120	4.209
-3.2	-1.85983	1.27120	24.182	20.935	1.155	1.127	4.196
-3.0	-1.66433	1.25810	20.420	17.624	1.159	1.135	4.189
-2.8	-1.46808	1.24728	17.371	14.916	1.165	1.145	4.189
-2.6	-1.27124	1.23826	14.919	12.725	1.172	1.156	4.194
-2.4	-1.07393	1.23061	12.969	10.970	1.182	1.168	4.202
-2.2	-.87629	1.22394	11.439	9.584	1.194	1.181	4.214
-2.0	-.67844	1.21789	10.265	8.512	1.206	1.194	4.227
-1.8	-.48050	1.21214	9.397	7.711	1.219	1.206	4.239
-1.6	-.28258	1.20633	8.800	7.151	1.231	1.218	4.249
-1.4	-.08482	1.20014	8.451	6.809	1.241	1.227	4.254
-1.2	.11266	1.19320	8.331	6.670	1.249	1.232	4.251
-1.0	.30973	1.18518	8.421	6.713	1.254	1.235	4.241
-.8	.50628	1.17579	8.686	6.910	1.257	1.234	4.222
-.6	.70223	1.16487	9.069	7.210	1.258	1.231	4.197
-.4	.89758	1.15246	9.484	7.544	1.257	1.226	4.167
-.2	1.09242	1.13886	9.835	7.834	1.255	1.222	4.136
-.0	1.28695	1.12459	10.039	8.010	1.253	1.219	4.104
.2	1.48142	1.11036	10.051	8.037	1.251	1.217	4.075
.4	1.67614	1.09696	9.872	7.912	1.248	1.217	4.050
.6	1.87146	1.08519	9.537	7.663	1.245	1.218	4.031
.8	2.06770	1.07585	9.101	7.329	1.242	1.223	4.020
1.0	2.26527	1.06983	8.615	6.953	1.239	1.230	4.021
1.2	2.46467	1.06834	8.123	6.567	1.237	1.241	4.036
1.4	2.66659	1.07307	7.654	6.196	1.235	1.257	4.072
1.6	2.87207	1.08670	7.227	5.856	1.234	1.282	4.138
1.8	3.08263	1.11346	6.850	5.553	1.234	1.319	4.249
2.0	3.30041	1.16001	6.526	5.289	1.234	1.372	4.422

Table 1 Continued

T = 4800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.25912	1.97600	15.470	12.635	1.224	1.213	5.485
-6.6	-5.06110	1.96700	20.139	16.843	1.196	1.180	5.398
-6.4	-4.86405	1.95367	26.881	22.864	1.176	1.154	5.320
-6.2	-4.66836	1.93440	36.061	30.952	1.165	1.135	5.249
-6.0	-4.47444	1.90749	47.613	40.950	1.163	1.121	5.181
-5.8	-4.28269	1.87163	60.721	52.029	1.167	1.112	5.112
-5.6	-4.09328	1.82651	73.693	62.695	1.175	1.106	5.036
-5.4	-3.90614	1.77323	84.339	71.189	1.185	1.103	4.954
-5.2	-3.72084	1.71422	90.806	76.172	1.192	1.100	4.866
-5.0	-3.53672	1.65267	92.297	77.175	1.196	1.099	4.775
-4.8	-3.35302	1.59180	89.213	74.600	1.196	1.099	4.685
-4.6	-3.16901	1.53423	82.728	69.380	1.192	1.099	4.601
-4.4	-2.98413	1.48175	74.238	62.577	1.186	1.100	4.523
-4.2	-2.79797	1.43526	64.996	55.118	1.179	1.102	4.455
-4.0	-2.61033	1.39501	55.888	47.689	1.172	1.104	4.397
-3.8	-2.42112	1.36076	47.473	40.728	1.166	1.107	4.349
-3.6	-2.23040	1.33201	40.019	34.474	1.161	1.111	4.310
-3.4	-2.03826	1.30810	33.603	29.022	1.158	1.116	4.280
-3.2	-1.84487	1.28835	28.199	24.372	1.157	1.122	4.259
-3.0	-1.65039	1.27208	23.717	20.474	1.158	1.129	4.246
-2.8	-1.45499	1.25867	20.046	17.250	1.162	1.137	4.239
-2.6	-1.25885	1.24755	17.070	14.613	1.168	1.147	4.238
-2.4	-1.06210	1.23824	14.679	12.480	1.176	1.158	4.242
-2.2	-.86490	1.23028	12.782	10.775	1.186	1.170	4.250
-2.0	-.66738	1.22328	11.298	9.433	1.198	1.183	4.261
-1.8	-.46966	1.21687	10.167	8.400	1.210	1.196	4.273
-1.6	-.27188	1.21067	9.341	7.637	1.223	1.208	4.284
-1.4	-.07415	1.20435	8.786	7.114	1.235	1.219	4.292
-1.2	.12338	1.19753	8.479	6.808	1.245	1.227	4.295
-1.0	.32059	1.18986	8.396	6.701	1.253	1.232	4.290
-.8	.51735	1.18102	8.511	6.765	1.258	1.234	4.277
-.6	.71357	1.17078	8.779	6.964	1.261	1.233	4.256
-.4	.90920	1.15907	9.129	7.238	1.261	1.230	4.230
-.2	1.10430	1.14605	9.474	7.515	1.261	1.226	4.200
-.0	1.29900	1.13214	9.723	7.722	1.259	1.223	4.169
.2	1.49353	1.11798	9.812	7.806	1.257	1.221	4.139
.4	1.68821	1.10436	9.718	7.748	1.254	1.220	4.113
.6	1.88336	1.09212	9.459	7.558	1.252	1.221	4.092
.8	2.07938	1.08214	9.078	7.270	1.249	1.225	4.079
1.0	2.27667	1.07541	8.625	6.923	1.246	1.232	4.077
1.2	2.47577	1.07317	8.148	6.552	1.244	1.242	4.090
1.4	2.67738	1.07717	7.680	6.185	1.242	1.258	4.125
1.6	2.88257	1.09013	7.244	5.841	1.240	1.283	4.190
1.8	3.09287	1.11626	6.853	5.529	1.239	1.319	4.300
2.0	3.31040	1.16227		5.256		1.372	4.474

Table 1 Continued

T = 4900

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
-6.8	-5.24876	1.98241	12.177	9.641	1.263	1.254	5.644
-6.6	-5.05007	1.97643	15.062	12.253	1.229	1.218	5.553
-6.4	-4.85203	1.96754	19.469	16.221	1.200	1.185	5.466
-6.2	-4.65494	1.95439	25.862	21.923	1.180	1.158	5.386
-6.0	-4.45919	1.93537	34.599	29.613	1.168	1.139	5.314
-5.8	-4.26520	1.90878	45.645	39.160	1.166	1.125	5.244
-5.6	-4.07335	1.87327	58.232	49.803	1.169	1.115	5.173
-5.4	-3.88385	1.82851	70.777	60.122	1.177	1.109	5.097
-5.2	-3.69663	1.77550	81.180	68.427	1.186	1.105	5.013
-5.0	-3.51127	1.71664	87.628	73.397	1.194	1.102	4.924
-4.8	-3.32712	1.65512	89.293	74.544	1.198	1.101	4.832
-4.6	-3.14342	1.59415	86.507	72.224	1.198	1.101	4.742
-4.4	-2.95945	1.53640	80.393	67.313	1.194	1.101	4.655
-4.2	-2.77461	1.48367	72.294	60.836	1.188	1.102	4.577
-4.0	-2.58852	1.43691	63.418	53.692	1.181	1.103	4.507
-3.8	-2.40094	1.39638	54.642	46.552	1.174	1.106	4.448
-3.6	-2.21181	1.36187	46.511	39.846	1.167	1.109	4.399
-3.4	-2.02116	1.33287	39.297	33.812	1.162	1.113	4.359
-3.2	-1.82910	1.30874	33.084	28.544	1.159	1.117	4.329
-3.0	-1.63578	1.28876	27.847	24.049	1.158	1.123	4.307
-2.8	-1.44137	1.27228	23.502	20.278	1.159	1.130	4.292
-2.6	-1.24604	1.25866	19.943	17.158	1.162	1.138	4.285
-2.4	-1.04997	1.24733	17.058	14.609	1.168	1.148	4.283
-2.2	-.85331	1.23778	14.743	12.547	1.175	1.158	4.286
-2.0	-.65620	1.22955	12.908	10.902	1.184	1.170	4.292
-1.8	-.45880	1.22223	11.480	9.611	1.194	1.181	4.301
-1.6	-.26122	1.21543	10.399	8.625	1.206	1.193	4.311
-1.4	-.06361	1.20876	9.619	7.904	1.217	1.205	4.319
-1.2	.13391	1.20186	9.107	7.419	1.227	1.214	4.324
-1.0	.33119	1.19436	8.839	7.148	1.237	1.221	4.323
-.8	.52810	1.18591	8.788	7.068	1.243	1.225	4.315
-.6	.72454	1.17622	8.919	7.146	1.248	1.226	4.299
-.4	.92043	1.16514	9.176	7.338	1.250	1.225	4.277
-.2	1.11577	1.15272	9.482	7.579	1.251	1.223	4.249
-.0	1.31067	1.13925	9.750	7.797	1.250	1.220	4.219
.2	1.50531	1.12528	9.905	7.933	1.249	1.217	4.189
.4	1.69999	1.11158	9.903	7.946	1.246	1.216	4.161
.6	1.89505	1.09899	9.737	7.835	1.243	1.216	4.138
.8	2.09087	1.08848	9.438	7.617	1.239	1.219	4.123
1.0	2.28792	1.08109	9.049	7.325	1.235	1.224	4.118
1.2	2.48673	1.07815	8.616	6.994	1.232	1.234	4.129
1.4	2.68806	1.08145	8.176	6.655	1.229	1.249	4.160
1.6	2.89297	1.09374	7.755	6.327	1.226	1.272	4.223
1.8	3.10298	1.11925	7.370	6.025	1.223	1.308	4.330
2.0	3.32025	1.16467		5.754		1.359	4.503

Table 1 Continued

T = 5000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.23904	1.98671	10.411	8.036	1.295	1.288	5.784
-6.6	-5.03994	1.98260	12.090	9.559	1.265	1.256	5.706
-6.4	-4.84126	1.97659	14.841	12.043	1.232	1.221	5.617
-6.2	-4.64322	1.96767	19.060	15.834	1.204	1.188	5.529
-6.0	-4.44614	1.95451	25.193	21.295	1.183	1.162	5.449
-5.8	-4.25039	1.93547	33.587	28.663	1.172	1.142	5.375
-5.6	-4.05640	1.90887	44.198	37.817	1.169	1.127	5.304
-5.4	-3.86455	1.87337	56.292	48.021	1.172	1.118	5.232
-5.2	-3.67506	1.82860	68.328	57.910	1.180	1.111	5.154
-5.0	-3.48783	1.77559	78.307	65.866	1.189	1.107	5.070
-4.8	-3.30248	1.71672	84.488	70.621	1.196	1.105	4.979
-4.6	-3.11833	1.65518	86.072	71.709	1.200	1.103	4.886
-4.4	-2.93463	1.59420	83.377	69.470	1.200	1.103	4.795
-4.2	-2.75067	1.53642	77.485	64.750	1.197	1.103	4.707
-4.0	-2.56584	1.48366	69.694	58.530	1.191	1.104	4.628
-3.8	-2.37976	1.43687	61.158	51.673	1.184	1.106	4.558
-3.6	-2.19220	1.39630	52.722	44.820	1.176	1.108	4.497
-3.4	-2.00308	1.36174	44.907	38.388	1.170	1.111	4.448
-3.2	-1.81245	1.33268	37.976	32.600	1.165	1.115	4.408
-3.0	-1.62041	1.30848	32.007	27.549	1.162	1.120	4.377
-2.8	-1.42712	1.28842	26.978	23.240	1.161	1.126	4.355
-2.6	-1.23275	1.27183	22.808	19.627	1.162	1.133	4.340
-2.4	-1.03747	1.25808	19.393	16.640	1.165	1.141	4.332
-2.2	-.84146	1.24658	16.628	14.200	1.171	1.150	4.330
-2.0	-.64487	1.23681	14.415	12.231	1.178	1.161	4.333
-1.8	-.44787	1.22832	12.667	10.665	1.188	1.172	4.339
-1.6	-.25058	1.22066	11.314	9.443	1.198	1.184	4.347
-1.4	-.05316	1.21342	10.299	8.517	1.209	1.196	4.355
-1.2	.14425	1.20623	9.581	7.852	1.220	1.206	4.361
-1.0	.34153	1.19868	9.127	7.418	1.230	1.215	4.364
-.8	.53852	1.19041	8.910	7.191	1.239	1.221	4.360
-.6	.73511	1.18110	8.896	7.142	1.245	1.225	4.349
-.4	.93121	1.17053	9.040	7.234	1.250	1.226	4.331
-.2	1.12678	1.15865	9.277	7.411	1.252	1.224	4.307
-.0	1.32187	1.14565	9.526	7.607	1.252	1.222	4.279
.2	1.51666	1.13197	9.706	7.757	1.251	1.220	4.249
.4	1.71139	1.11831	9.760	7.812	1.249	1.219	4.221
.6	1.90639	1.10553	9.662	7.752	1.246	1.219	4.197
.8	2.10208	1.09460	9.425	7.583	1.243	1.221	4.180
1.0	2.29892	1.08667	9.083	7.332	1.239	1.226	4.173
1.2	2.49749	1.08308	8.681	7.029	1.235	1.235	4.182
1.4	2.69855	1.08573	8.258	6.706	1.231	1.250	4.212
1.6	2.90318	1.09738	7.842	6.386	1.228	1.272	4.273
1.8	3.11293	1.12229	7.455	6.084	1.225	1.307	4.379
2.0	3.32995	1.16715		5.810		1.357	4.551

Table 1 Continued

T = 5100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.22976	1.98983	9.625	7.335	1.312	1.307	5.889
-6.6	-5.03042	1.98682	10.490	8.112	1.293	1.287	5.838
-6.4	-4.83134	1.98260	12.100	9.565	1.265	1.256	5.764
-6.2	-4.63269	1.97644	14.752	11.954	1.234	1.223	5.677
-6.0	-4.43470	1.96733	18.837	15.613	1.206	1.191	5.589
-5.8	-4.23767	1.95393	24.772	20.886	1.186	1.164	5.508
-5.6	-4.04199	1.93458	32.884	27.990	1.175	1.144	5.433
-5.4	-3.84809	1.90760	43.110	36.785	1.172	1.130	5.361
-5.2	-3.65634	1.87168	54.715	46.542	1.176	1.120	5.287
-5.0	-3.46695	1.82651	66.181	55.935	1.183	1.114	5.208
-4.8	-3.27982	1.77318	75.596	63.417	1.192	1.110	5.122
-4.6	-3.09454	1.71411	81.323	67.798	1.199	1.107	5.031
-4.4	-2.91043	1.65252	82.637	68.669	1.203	1.106	4.936
-4.2	-2.72674	1.59160	79.877	66.383	1.203	1.105	4.844
-4.0	-2.54275	1.53399	74.093	61.761	1.200	1.106	4.756
-3.8	-2.35789	1.48145	66.549	55.743	1.194	1.107	4.676
-3.6	-2.17176	1.43489	58.332	49.148	1.187	1.109	4.606
-3.4	-1.98414	1.39456	50.241	42.581	1.180	1.111	4.546
-3.2	-1.79497	1.36020	42.760	36.430	1.174	1.114	4.496
-3.0	-1.60430	1.33131	36.136	30.906	1.169	1.119	4.456
-2.8	-1.41222	1.30723	30.439	26.092	1.167	1.124	4.426
-2.6	-1.21891	1.28725	25.646	21.990	1.166	1.130	4.405
-2.4	-1.02454	1.27069	21.677	18.555	1.168	1.138	4.391
-2.2	-.82927	1.25691	18.432	15.720	1.173	1.146	4.384
-2.0	-.63330	1.24532	15.810	13.409	1.179	1.156	4.382
-1.8	-.43677	1.23540	13.718	11.550	1.188	1.167	4.386
-1.6	-.23985	1.22667	12.075	10.078	1.198	1.179	4.392
-1.4	-.04269	1.21868	10.815	8.939	1.210	1.192	4.401
-1.2	.15457	1.21101	9.885	8.088	1.222	1.204	4.409
-1.0	.35178	1.20325	9.243	7.490	1.234	1.214	4.414
-.8	.54880	1.19502	8.857	7.116	1.245	1.223	4.415
-.6	.74550	1.18597	8.695	6.936	1.254	1.229	4.409
-.4	.94176	1.17582	8.714	6.916	1.260	1.232	4.396
-.2	1.13754	1.16443	8.858	7.009	1.264	1.233	4.375
-.0	1.33284	1.15189	9.053	7.153	1.266	1.232	4.350
.2	1.52778	1.13855	9.220	7.283	1.266	1.231	4.323
.4	1.72258	1.12502	9.290	7.345	1.265	1.230	4.295
.6	1.91758	1.11212	9.226	7.305	1.263	1.230	4.271
.8	2.11316	1.10086	9.024	7.159	1.260	1.232	4.254
1.0	2.30981	1.09241	8.710	6.927	1.257	1.238	4.246
1.2	2.50815	1.08823	8.321	6.635	1.254	1.247	4.254
1.4	2.70894	1.09022	7.900	6.313	1.251	1.262	4.284
1.6	2.91330	1.10123	7.476	5.988	1.248	1.286	4.345
1.8	3.12278	1.12552	7.076	5.677	1.246	1.321	4.453
2.0	3.33954	1.16980		5.391		1.373	4.628

Table 1 Continued

T = 5200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.22076	1.99241	9.464	7.204	1.314	1.310	5.957
-6.6	-5.02129	1.98998	9.762	7.459	1.309	1.304	5.940
-6.4	-4.82198	1.98682	10.604	8.213	1.291	1.285	5.891
-6.2	-4.62295	1.98241	12.194	9.645	1.264	1.256	5.818
-6.0	-4.42435	1.97601	14.827	12.010	1.235	1.223	5.733
-5.8	-4.22643	1.96658	18.879	15.635	1.208	1.192	5.645
-5.6	-4.02950	1.95273	24.758	20.840	1.188	1.166	5.564
-5.4	-3.83395	1.93281	32.753	27.819	1.177	1.146	5.488
-5.2	-3.64022	1.90513	42.759	36.395	1.175	1.132	5.414
-5.0	-3.44866	1.86846	54.009	45.819	1.179	1.122	5.339
-4.8	-3.25946	1.82256	64.982	54.776	1.186	1.116	5.258
-4.6	-3.07250	1.76865	73.825	61.778	1.195	1.112	5.170
-4.4	-2.88734	1.70925	79.015	65.732	1.202	1.109	5.077
-4.2	-2.70330	1.64758	79.948	66.307	1.206	1.108	4.982
-4.0	-2.51962	1.58682	77.005	63.892	1.205	1.108	4.888
-3.8	-2.33558	1.52954	71.242	59.299	1.201	1.108	4.800
-3.6	-2.15064	1.47742	63.872	53.430	1.195	1.109	4.720
-3.4	-1.96440	1.43133	55.924	47.058	1.188	1.111	4.650
-3.2	-1.77668	1.39144	48.148	40.752	1.181	1.114	4.590
-3.0	-1.58740	1.35750	40.990	34.869	1.176	1.117	4.541
-2.8	-1.39663	1.32896	34.665	29.600	1.171	1.121	4.502
-2.6	-1.20448	1.30515	29.240	25.019	1.169	1.127	4.472
-2.4	-1.01111	1.28537	24.684	21.122	1.169	1.133	4.451
-2.2	-.81670	1.26894	20.916	17.864	1.171	1.141	4.437
-2.0	-.62143	1.25519	17.841	15.179	1.175	1.150	4.431
-1.8	-.42548	1.24356	15.363	12.997	1.182	1.160	4.430
-1.6	-.22900	1.23351	13.393	11.247	1.191	1.172	4.433
-1.4	-.03217	1.22453	11.854	9.868	1.201	1.183	4.439
-1.2	.16486	1.21619	10.684	8.810	1.213	1.196	4.447
-1.0	.36194	1.20805	9.834	8.031	1.224	1.207	4.453
-.8	.55892	1.19969	9.264	7.497	1.236	1.217	4.456
-.6	.75567	1.19073	8.940	7.176	1.246	1.225	4.454
-.4	.95206	1.18086	8.823	7.037	1.254	1.231	4.445
-.2	1.14800	1.16988	8.862	7.037	1.259	1.233	4.429
-.0	1.34348	1.15778	8.994	7.122	1.263	1.234	4.407
.2	1.53858	1.14479	9.141	7.231	1.264	1.233	4.382
.4	1.73349	1.13145	9.230	7.302	1.264	1.233	4.355
.6	1.92850	1.11853	9.211	7.295	1.263	1.233	4.331
.8	2.12402	1.10703	9.063	7.192	1.260	1.235	4.312
1.0	2.32053	1.09816	8.800	7.000	1.257	1.241	4.304
1.2	2.51865	1.09343	8.452	6.742	1.254	1.249	4.310
1.4	2.71921	1.09484	8.056	6.444	1.250	1.264	4.338
1.6	2.92330	1.10521	7.648	6.134	1.247	1.288	4.399
1.8	3.13251	1.12889	7.252	5.829	1.244	1.323	4.506
2.0	3.34900	1.17257		5.545		1.374	4.681

Table 1 Continued

T = 5300

Log ρ	Log p	Z	C_p/R	C_V/R	γ	$γ_E$	a/a_a
-6.8	-5.21196	1.99486	9.800	7.530	1.302	1.298	5.991
-6.6	-5.01244	1.99263	9.654	7.379	1.308	1.305	6.002
-6.4	-4.81301	1.99003	9.936	7.620	1.304	1.299	5.986
-6.2	-4.61374	1.98669	10.775	8.368	1.288	1.281	5.940
-6.0	-4.41476	1.98204	12.371	9.800	1.262	1.254	5.869
-5.8	-4.21624	1.97530	15.017	12.172	1.234	1.222	5.784
-5.6	-4.01842	1.96541	19.083	15.797	1.208	1.192	5.697
-5.4	-3.82163	1.95092	24.957	20.983	1.189	1.166	5.615
-5.2	-3.62627	1.93018	32.888	27.879	1.180	1.147	5.539
-5.0	-3.43277	1.90151	42.716	36.267	1.178	1.133	5.464
-4.8	-3.24148	1.86375	53.608	45.347	1.182	1.124	5.387
-4.6	-3.05255	1.81684	64.038	53.814	1.190	1.117	5.304
-4.4	-2.86583	1.76215	72.207	60.251	1.198	1.113	5.215
-4.2	-2.68083	1.70230	76.740	63.681	1.205	1.111	5.120
-4.0	-2.49688	1.64056	77.168	63.868	1.208	1.110	5.024
-3.8	-2.31320	1.58006	73.953	61.253	1.207	1.110	4.930
-3.6	-2.12909	1.52327	68.151	56.642	1.203	1.110	4.841
-3.4	-1.94403	1.47178	60.925	50.897	1.197	1.112	4.761
-3.2	-1.75764	1.42635	53.247	44.743	1.190	1.113	4.692
-3.0	-1.56976	1.38712	45.794	38.702	1.183	1.116	4.632
-2.8	-1.38033	1.35376	38.977	33.098	1.178	1.120	4.584
-2.6	-1.18942	1.32572	32.976	28.098	1.174	1.124	4.545
-2.4	-.99715	1.30232	27.842	23.765	1.172	1.130	4.516
-2.2	-.80369	1.28285	23.542	20.089	1.172	1.137	4.496
-2.0	-.60923	1.26661	19.995	17.023	1.175	1.145	4.483
-1.8	-.41393	1.25296	17.107	14.503	1.179	1.154	4.477
-1.6	-.21799	1.24131	14.787	12.461	1.187	1.164	4.476
-1.4	-.02157	1.23112	12.952	10.831	1.196	1.176	4.479
-1.2	.17516	1.22190	11.529	9.556	1.206	1.188	4.485
-1.0	.37205	1.21317	10.462	8.589	1.218	1.200	4.491
-.8	.56894	1.20450	9.702	7.889	1.230	1.211	4.495
-.6	.76567	1.19548	9.211	7.423	1.241	1.220	4.496
-.4	.96212	1.18575	8.949	7.158	1.250	1.227	4.491
-.2	1.15819	1.17507	8.871	7.055	1.257	1.232	4.479
-.0	1.35384	1.16334	8.919	7.065	1.262	1.234	4.460
.2	1.54910	1.15071	9.022	7.131	1.265	1.235	4.437
.4	1.74412	1.13760	9.105	7.191	1.266	1.235	4.412
.6	1.93918	1.12473	9.108	7.197	1.266	1.235	4.388
.8	2.13465	1.11308	8.998	7.121	1.264	1.238	4.369
1.0	2.33105	1.10387	8.774	6.960	1.261	1.243	4.360
1.2	2.52899	1.09865	8.460	6.727	1.258	1.251	4.365
1.4	2.72931	1.09948	8.087	6.449	1.254	1.266	4.392
1.6	2.93316	1.10925	7.689	6.149	1.250	1.289	4.451
1.8	3.14211	1.13233	7.297	5.850	1.247	1.324	4.558
2.0	3.35833	1.17545		5.565		1.375	4.732

Table 1 Continued

T = 5400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.20328	1.99745	10.524	8.212	1.282	1.278	6.004
-6.6	-5.00378	1.99515	9.997	7.709	1.297	1.293	6.036
-6.4	-4.80430	1.99277	9.841	7.548	1.304	1.300	6.047
-6.2	-4.60490	1.98999	10.126	7.791	1.300	1.294	6.031
-6.0	-4.40568	1.98641	10.984	8.553	1.284	1.277	5.985
-5.8	-4.20677	1.98144	12.617	10.016	1.260	1.251	5.915
-5.6	-4.00835	1.97427	15.320	12.433	1.232	1.220	5.832
-5.4	-3.81066	1.96376	19.455	16.109	1.208	1.190	5.745
-5.2	-3.61407	1.94843	25.391	21.330	1.190	1.166	5.664
-5.0	-3.41896	1.92659	33.323	28.202	1.182	1.147	5.587
-4.8	-3.22577	1.89662	43.024	36.440	1.181	1.134	5.511
-4.6	-3.03483	1.85747	53.576	45.187	1.186	1.125	5.432
-4.4	-2.84625	1.80928	63.435	53.143	1.194	1.119	5.347
-4.2	-2.65982	1.75362	70.870	58.969	1.202	1.115	5.255
-4.0	-2.47503	1.69326	74.673	61.814	1.208	1.113	5.159
-3.8	-2.29117	1.63150	74.525	61.559	1.211	1.112	5.061
-3.6	-2.10747	1.57139	70.984	58.701	1.209	1.112	4.967
-3.4	-1.92326	1.51527	65.106	54.041	1.205	1.112	4.879
-3.2	-1.73803	1.46460	58.002	48.400	1.198	1.114	4.800
-3.0	-1.55145	1.42005	50.579	42.450	1.191	1.116	4.731
-2.8	-1.36335	1.38165	43.445	36.667	1.185	1.119	4.672
-2.6	-1.17372	1.34905	36.962	31.338	1.179	1.123	4.625
-2.4	-.98263	1.32166	31.285	26.606	1.176	1.128	4.587
-2.2	-.79021	1.29879	26.447	22.521	1.174	1.133	4.559
-2.0	-.59664	1.27971	22.404	19.066	1.175	1.141	4.540
-1.8	-.40210	1.26373	19.078	16.192	1.178	1.149	4.528
-1.6	-.20677	1.25022	16.380	13.837	1.184	1.158	4.522
-1.4	-.01083	1.23857	14.222	11.937	1.191	1.169	4.521
-1.2	.18553	1.22824	12.523	10.428	1.201	1.180	4.524
-1.0	.38216	1.21873	11.219	9.259	1.212	1.192	4.529
-.8	.57888	1.20958	10.254	8.382	1.223	1.204	4.534
-.6	.77555	1.20033	9.584	7.761	1.235	1.214	4.536
-.4	.97202	1.19061	9.167	7.361	1.245	1.223	4.534
-.2	1.16817	1.18011	8.960	7.145	1.254	1.229	4.526
-.0	1.36394	1.16868	8.909	7.067	1.261	1.233	4.511
.2	1.55934	1.15637	8.949	7.075	1.265	1.235	4.491
.4	1.75449	1.14351	9.007	7.109	1.267	1.236	4.467
.6	1.94961	1.13074	9.017	7.116	1.267	1.237	4.445
.8	2.14508	1.11900	8.936	7.058	1.266	1.240	4.426
1.0	2.34139	1.10952	8.749	6.924	1.264	1.244	4.416
1.2	2.53918	1.10389	8.468	6.719	1.260	1.253	4.420
1.4	2.73930	1.10420	8.121	6.462	1.257	1.267	4.445
1.6	2.94290	1.11340	7.741	6.177	1.253	1.290	4.504
1.8	3.15159	1.13590	7.356	5.886	1.250	1.325	4.609
2.0	3.36755	1.17843		5.604		1.375	4.784

Table 1 Continued

T = 5500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.19466	2.00044	11.609	9.227	1.258	1.254	6.007
-6.6	-4.99522	1.99783	10.712	8.383	1.278	1.274	6.051
-6.4	-4.79576	1.99538	10.176	7.871	1.293	1.289	6.082
-6.2	-4.59632	1.99281	10.023	7.714	1.299	1.295	6.092
-6.0	-4.39697	1.98983	10.331	7.974	1.296	1.290	6.075
-5.8	-4.19781	1.98597	11.231	8.773	1.280	1.273	6.029
-5.6	-3.99898	1.98062	12.934	10.293	1.257	1.247	5.959
-5.4	-3.80068	1.97290	15.735	12.789	1.230	1.217	5.876
-5.2	-3.60317	1.96161	19.991	16.559	1.207	1.189	5.791
-5.0	-3.40681	1.94523	26.038	21.860	1.191	1.165	5.709
-4.8	-3.21202	1.92204	34.019	28.737	1.184	1.147	5.631
-4.6	-3.01921	1.89047	43.604	36.827	1.184	1.135	5.554
-4.4	-2.82869	1.84966	53.788	45.212	1.190	1.126	5.473
-4.2	-2.64052	1.79998	62.992	52.589	1.198	1.120	5.386
-4.0	-2.45442	1.74325	69.594	57.722	1.206	1.117	5.292
-3.8	-2.26986	1.68238	72.563	59.912	1.211	1.115	5.194
-3.6	-2.08609	1.62068	71.769	59.163	1.213	1.114	5.096
-3.4	-1.90235	1.56110	67.859	56.032	1.211	1.114	5.001
-3.2	-1.71801	1.50582	61.888	51.313	1.206	1.115	4.914
-3.0	-1.53257	1.45617	54.913	45.778	1.200	1.116	4.835
-2.8	-1.34575	1.41266	47.757	40.042	1.193	1.119	4.767
-2.6	-1.15740	1.37526	40.964	34.529	1.186	1.122	4.711
-2.4	-.96753	1.34355	34.836	29.489	1.181	1.126	4.664
-2.2	-.77622	1.31692	29.502	25.040	1.178	1.131	4.628
-2.0	-.58363	1.29465	24.975	21.215	1.177	1.137	4.602
-1.8	-.38992	1.27602	21.206	17.993	1.179	1.145	4.583
-1.6	-.19529	1.26035	18.116	15.323	1.182	1.153	4.572
-1.4	.00008	1.24698	15.619	13.143	1.188	1.163	4.567
-1.2	.19600	1.23532	13.633	11.394	1.197	1.174	4.566
-1.0	.39229	1.22483	12.081	10.014	1.206	1.185	4.569
-.8	.58879	1.21500	10.905	8.957	1.218	1.197	4.573
-.6	.78533	1.20536	10.051	8.178	1.229	1.208	4.576
-.4	.98176	1.19549	9.474	7.639	1.240	1.218	4.576
-.2	1.17795	1.18504	9.132	7.305	1.250	1.226	4.570
-.0	1.37381	1.17381	8.973	7.133	1.258	1.231	4.559
.2	1.56934	1.16177	8.936	7.071	1.264	1.235	4.542
.4	1.76459	1.14915	8.953	7.066	1.267	1.237	4.521
.6	1.95979	1.13652	8.954	7.059	1.268	1.239	4.500
.8	2.15527	1.12475	8.888	7.009	1.268	1.242	4.482
1.0	2.35152	1.11507	8.728	6.893	1.266	1.246	4.471
1.2	2.54919	1.10909	8.475	6.708	1.263	1.255	4.474
1.4	2.74912	1.10893	8.151	6.470	1.260	1.269	4.499
1.6	2.95251	1.11759	7.786	6.198	1.256	1.292	4.557
1.8	3.16095	1.13952	7.407	5.914	1.253	1.326	4.662
2.0	3.37665	1.18149		5.633		1.376	4.836

Table 1 Continued

T = 5600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.18605	2.00403	13.062	10.579	1.235	1.230	6.008
-6.6	-4.98673	2.00089	11.775	9.377	1.256	1.251	6.055
-6.4	-4.78733	1.99813	10.870	8.527	1.275	1.271	6.098
-6.2	-4.58790	1.99551	10.337	8.018	1.289	1.285	6.127
-6.0	-4.38850	1.99275	10.205	7.876	1.296	1.290	6.136
-5.8	-4.18921	1.98952	10.550	8.171	1.291	1.285	6.118
-5.6	-3.99013	1.98533	11.516	9.025	1.276	1.268	6.071
-5.4	-3.79140	1.97950	13.319	10.630	1.253	1.242	6.000
-5.2	-3.59325	1.97109	16.254	13.237	1.228	1.213	5.917
-5.0	-3.39596	1.95884	20.676	17.138	1.206	1.186	5.833
-4.8	-3.19990	1.94115	26.878	22.552	1.192	1.164	5.751
-4.6	-3.00549	1.91631	34.937	29.458	1.186	1.147	5.673
-4.4	-2.81315	1.88284	44.402	37.395	1.187	1.135	5.594
-4.2	-2.62312	1.84008	54.174	45.382	1.194	1.127	5.511
-4.0	-2.43542	1.78872	62.659	52.129	1.202	1.122	5.420
-3.8	-2.24970	1.73084	·68.366	56.525	1.209	1.118	5.324
-3.6	-2.06537·	1.66951	70.462	58.027	1.214	1.117	5.225
-3.4	-1.88167	1.60799	68.998	56.774	1.215	1.116	5.126
-3.2	-1.69787	1.54912	64.722	53.371	1.213	1.116	5.032
-3.0	-1.51335	1.49490	58.671	48.597	1.207	1.117	4.945
-2.8	-1.32765	1.44646	51.837	43.173	1.201	1.119	4.868
-2.6	-1.14053	1.40419	44.956	37.655	1.194	1.121	4.802
-2.4	-.95189	1.36795	38.504	32.415	1.188	1.125	4.747
-2.2	-.76174	1.33727	32.734	27.665	1.183	1.129	4.702
-2.0	-.57019	1.31150	27.744	23.498	1.181	1.135	4.668
-1.8	-.37740	1.28992	23.527	19.933	1.180	1.141	4.642
-1.6	-.18354	1.27180	20.032	16.943	1.182	1.149	4.625
-1.4	.01119	1.25646	17.178	14.475	1.187	1.158	4.615
-1.2	.20660	1.24325	14.883	12.471	1.193	1.168	4.610
-1.0	.40250	1.23157	13.068	10.871	1.202	1.178	4.610
-.8	.59872	1.22089	11.665	9.622	1.212	1.190	4.612
-.6	.79507	1.21069	10.616	8.677	1.223	1.201	4.615
-.4	.99141	1.20052	9.871	7.994	1.235	1.212	4.615
-.2	1.18759	1.19001	9.384	7.535	1.245	1.221	4.612
-.0	1.38351	1.17888	9.106	7.258	1.255	1.228	4.604
.2	1.57913	1.16704	8.980	7.118	1.262	1.233	4.590
.4	1.77449	1.15464	8.940	7.060	1.266	1.236	4.572
.6	1.96977	1.14216	8.918	7.028	1.269	1.239	4.552
.8	2.16528	1.13041	8.853	6.974	1.269	1.242	4.535
1.0	2.36149	1.12059	8.710	6.868	1.268	1.247	4.524
1.2	2.55904	1.11429	8.481	6.701	1.266	1.256	4.527
1.4	2.75880	1.11369	8.179	6.478	1.263	1.270	4.551
1.6	2.96199	1.12186	7.828	6.219	1.259	1.292	4.607
1.8	3.17019	1.14326	7.457	5.942	1.255	1.326	4.712
2.0	3.38563	1.18466		5.665		1.376	4.887

Table 1 Continued

T = 5700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.17741	2.00844	14.913	12.295	1.213	1.207	6.011
-6.6	-4.97826	2.00454	13.191	10.693	1.234	1.228	6.058
-6.4	-4.77897	2.00125	11.901	9.490	1.254	1.249	6.105
-6.2	-4.57960	1.99833	11.005	8.646	1.273	1.268	6.146
-6.0	-4.38021	1.99554	10.491	8.156	1.286	1.281	6.173
-5.8	-4.18086	1.99257	10.395	8.049	1.291	1.286	6.180
-5.6	-3.98162	1.98906	10.805	8.398	1.287	1.280	6.160
-5.4	-3.78263	1.98447	11.866	9.337	1.271	1.262	6.110
-5.2	-3.58403	1.97807	13.809	11.062	1.248	1.237	6.038
-5.0	-3.38606	1.96884	16.939	13.831	1.225	1.209	5.956
-4.8	-3.18903	1.95542	21.589	17.915	1.205	1.183	5.872
-4.6	-2.99332	1.93618	28.016	23.492	1.193	1.162	5.790
-4.4	-2.79937	1.90941	36.188	30.453	1.188	1.146	5.711
-4.2	-2.60756	1.87376	45.536	38.235	1.191	1.135	5.630
-4.0	-2.41809	1.82885	54.850	45.783	1.198	1.128	5.544
-3.8	-2.23090	1.77571	62.539	51.846	1.206	1.123	5.451
-3.6	-2.04557	1.71671	67.271	55.453	1.213	1.120	5.353
-3.4	-1.86147	1.65502	68.443	56.237	1.217	1.118	5.253
-3.2	-1.67782	1.59387	66.294	54.464	1.217	1.118	5.153
-3.0	-1.49391	1.53590	61.646	50.786	1.214	1.118	5.060
-2.8	-1.30915	1.48292	55.515	45.957	1.208	1.120	4.974
-2.6	-1.12316	1.43585	48.822	40.643	1.201	1.121	4.899
-2.4	-.93571	1.39495	42.219	35.340	1.195	1.124	4.835
-2.2	-.74674	1.35999	36.107	30.367	1.189	1.128	4.782
-2.0	-.55628	1.33042	30.690	25.899	1.185	1.133	4.739
-1.8	-.36447	1.30558	26.034	22.007	1.183	1.138	4.707
-1.6	-.17146	1.28472	22.123	18.694	1.183	1.145	4.683
-1.4	.02255	1.26713	18.894	15.930	1.186	1.153	4.667
-1.2	.21737	1.25212	16.270	13.658	1.191	1.162	4.658
-1.0	.41281	1.23904	14.172	11.824	1.199	1.173	4.654
-.8	.60868	1.22730	12.526	10.371	1.208	1.184	4.653
-.6	.80479	1.21637	11.268	9.248	1.218	1.195	4.655
-.4	1.00099	1.20575	10.342	8.411	1.230	1.206	4.656
-.2	1.19711	1.19503	9.700	7.818	1.241	1.216	4.654
-.0	1.39304	1.18388	9.291	7.429	1.251	1.224	4.648
.2	1.58871	1.17216	9.063	7.199	1.259	1.231	4.637
.4	1.78416	1.15993	8.952	7.077	1.265	1.236	4.622
.6	1.97952	1.14759	8.890	7.007	1.269	1.239	4.604
.8	2.17506	1.13589	8.815	6.940	1.270	1.243	4.588
1.0	2.37125	1.12596	8.683	6.838	1.270	1.249	4.578
1.2	2.56872	1.11942	8.474	6.684	1.268	1.258	4.581
1.4	2.76835	1.11847	8.193	6.477	1.265	1.272	4.604
1.6	2.97133	1.12616	7.859	6.232	1.261	1.294	4.660
1.8	3.17931	1.14702	7.499	5.965	1.257	1.327	4.764
2.0	3.39450	1.18789		5.692		1.378	4.939

Table 1 Continued

T = 5800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.16868	2.01390	17.207	14.413	1.194	1.187	6.021
-6.6	-4.96974	2.00899	14.981	12.350	1.213	1.207	6.064
-6.4	-4.77062	2.00494	13.266	10.756	1.233	1.228	6.111
-6.2	-4.57136	2.00150	11.989	9.565	1.253	1.248	6.156
-6.0	-4.37203	1.99842	11.112	8.742	1.271	1.266	6.195
-5.8	-4.17268	1.99545	10.634	8.283	1.284	1.278	6.220
-5.6	-3.97337	1.99225	10.593	8.224	1.288	1.282	6.223
-5.4	-3.77421	1.98841	11.084	8.646	1.282	1.274	6.199
-5.2	-3.57532	1.98334	12.270	9.692	1.266	1.256	6.147
-5.0	-3.37688	1.97625	14.384	11.565	1.244	1.231	6.074
-4.8	-3.17913	1.96602	17.740	14.525	1.221	1.204	5.991
-4.6	-2.98241	1.95122	22.655	18.821	1.204	1.179	5.908
-4.4	-2.78713	1.93014	29.325	24.574	1.193	1.160	5.827
-4.2	-2.59371	1.90113	37.601	31.577	1.191	1.145	5.746
-4.0	-2.40250	1.86304	46.777	39.153	1.195	1.135	5.663
-3.8	-2.21365	1.81581	55.549	46.196	1.202	1.128	5.574
-3.6	-2.02700	1.76085	62.360	51.516	1.210	1.124	5.479
-3.4	-1.84206	1.70080	66.073	54.304	1.217	1.121	5.378
-3.2	-1.65816	1.63893	66.319	54.376	1.220	1.120	5.277
-3.0	-1.47452	1.57835	63.515	52.111	1.219	1.120	5.178
-2.8	-1.29045	1.52150	58.540	48.190	1.215	1.121	5.085
-2.6	-1.10542	1.46994	52.375	43.335	1.209	1.122	5.001
-2.4	-.91908	1.42442	45.850	38.152	1.202	1.124	4.928
-2.2	-.73126	1.38503	39.540	33.075	1.195	1.127	4.866
-2.0	-.54192	1.35144	33.772	28.374	1.190	1.131	4.815
-1.8	-.35114	1.32306	28.709	24.188	1.187	1.136	4.775
-1.6	-.15904	1.29920	24.385	20.568	1.186	1.142	4.744
-1.4	.03418	1.27909	20.773	17.504	1.187	1.150	4.723
-1.2	.22835	1.26203	17.807	14.960	1.190	1.158	4.708
-1.0	.42326	1.24733	15.410	12.883	1.196	1.168	4.700
-.8	.61872	1.23435	13.506	11.217	1.204	1.178	4.696
-.6	.81453	1.22250	12.026	9.908	1.214	1.189	4.696
-.4	1.01052	1.21127	10.910	8.909	1.225	1.200	4.696
-.2	1.20654	1.20020	10.104	8.176	1.236	1.211	4.695
-.0	1.40243	1.18892	9.558	7.668	1.246	1.221	4.691
.2	1.59814	1.17722	9.217	7.340	1.256	1.228	4.683
.4	1.79365	1.16511	9.023	7.143	1.263	1.234	4.670
.6	1.98907	1.15289	8.907	7.024	1.268	1.239	4.655
.8	2.18466	1.14123	8.807	6.931	1.271	1.244	4.641
1.0	2.38084	1.13125	8.672	6.822	1.271	1.250	4.632
1.2	2.57824	1.12449	8.473	6.672	1.270	1.259	4.634
1.4	2.77773	1.12318	8.206	6.476	1.267	1.273	4.657
1.6	2.98053	1.13045	7.886	6.240	1.264	1.295	4.712
1.8	3.18830	1.15084	7.535	5.980	1.260	1.329	4.816
2.0	3.40326	1.19118		5.712		1.379	4.991

Table 1 Continued

T = 5900

Log ρ	Log p	Z	C_p/R	C_V/R	γ	$γ_E$	a/a_a
-6.8	-5.15980	2.02065	19.995	16.972	1.178	1.169	6.037
-6.6	-4.96114	2.01443	17.180	14.376	1.195	1.188	6.075
-6.4	-4.76223	2.00938	14.978	12.338	1.214	1.208	6.118
-6.2	-4.56314	2.00519	13.284	10.767	1.234	1.228	6.164
-6.0	-4.36391	2.00162	12.036	9.603	1.253	1.248	6.208
-5.8	-4.16461	1.99840	11.197	8.814	1.270	1.265	6.245
-5.6	-3.96530	1.99523	10.768	8.401	1.282	1.276	6.266
-5.4	-3.76606	1.99176	10.800	8.406	1.285	1.278	6.266
-5.2	-3.56698	1.98754	11.398	8.923	1.277	1.269	6.238
-5.0	-3.36821	1.98191	12.736	10.103	1.261	1.250	6.182
-4.8	-3.16995	1.97399	15.063	12.157	1.239	1.225	6.108
-4.6	-2.97247	1.96258	18.689	15.341	1.218	1.199	6.025
-4.4	-2.77612	1.94614	23.908	19.877	1.203	1.176	5.942
-4.2	-2.58133	1.92294	30.832	25.810	1.195	1.158	5.860
-4.0	-2.38851	1.89141	39.179	32.815	1.194	1.144	5.779
-3.8	-2.19797	1.85066	48.090	40.105	1.199	1.135	5.693
-3.6	-2.00978	1.80101	56.187	46.539	1.207	1.129	5.601
-3.4	-1.82368	1.74428	62.008	51.036	1.215	1.125	5.503
-3.2	-1.63912	1.68335	64.638	52.968	1.220	1.123	5.401
-3.0	-1.45537	1.62151	63.954	52.333	1.222	1.122	5.298
-2.8	-1.27169	1.56174	60.533	49.607	1.220	1.122	5.200
-2.6	-1.08741	1.50622	55.290	45.484	1.216	1.123	5.108
-2.4	-.90205	1.45627	49.139	40.642	1.209	1.125	5.027
-2.2	-.71533	1.41242	42.825	35.620	1.202	1.127	4.956
-2.0	-.52711	1.37464	36.835	30.791	1.196	1.130	4.896
-1.8	-.33738	1.34249	31.432	26.377	1.192	1.135	4.848
-1.6	-.14626	1.31534	26.731	22.483	1.189	1.140	4.810
-1.4	.04612	1.29246	22.747	19.139	1.189	1.147	4.782
-1.2	.23957	1.27310	19.437	16.328	1.190	1.154	4.761
-1.0	.43388	1.25654	16.736	14.006	1.195	1.163	4.748
-.8	.62886	1.24211	14.566	12.124	1.201	1.173	4.741
-.6	.82432	1.22917	12.857	10.625	1.210	1.184	4.738
-.4	1.02005	1.21716	11.545	9.461	1.220	1.195	4.737
-.2	1.21590	1.20559	10.570	8.585	1.231	1.206	4.735
-.0	1.41173	1.19405	9.879	7.954	1.242	1.216	4.732
.2	1.60742	1.18227	9.421	7.524	1.252	1.225	4.726
.4	1.80297	1.17020	9.135	7.248	1.260	1.232	4.716
.6	1.99844	1.15807	8.959	7.074	1.266	1.238	4.703
.8	2.19407	1.14646	8.826	6.948	1.270	1.243	4.690
1.0	2.39025	1.13642	8.681	6.827	1.272	1.250	4.682
1.2	2.58760	1.12950	8.488	6.678	1.271	1.260	4.685
1.4	2.78699	1.12791	8.234	6.489	1.269	1.274	4.708
1.6	2.98962	1.13479	7.925	6.262	1.266	1.296	4.763
1.8	3.19718	1.15470	7.583	6.009	1.262	1.329	4.866
2.0	3.41190	1.19454		5.746		1.379	5.041

Table 1 Continued

T = 6000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
−6.8	−5.15072	2.02897	23.367	20.053	1.165	1.154	6.062
−6.6	−4.95241	2.02111	19.860	16.835	1.180	1.171	6.093
−6.4	−4.75377	2.01477	17.091	14.285	1.196	1.189	6.131
−6.2	−4.55488	2.00960	14.929	12.286	1.215	1.209	6.174
−6.0	−4.35581	2.00531	13.277	10.753	1.235	1.229	6.218
−5.8	−4.15661	2.00161	12.069	9.628	1.253	1.248	6.261
−5.6	−3.95735	1.99823	11.278	8.885	1.269	1.264	6.295
−5.4	−3.75809	1.99485	10.916	8.532	1.279	1.274	6.314
−5.2	−3.55891	1.99107	11.039	8.619	1.281	1.274	6.308
−5.0	−3.35993	1.98639	11.766	9.250	1.272	1.264	6.275
−4.8	−3.16131	1.98008	13.286	10.586	1.255	1.244	6.216
−4.6	−2.96327	1.97116	15.859	12.849	1.234	1.219	6.140
−4.4	−2.76611	1.95832	19.787	16.280	1.215	1.194	6.056
−4.2	−2.57021	1.93995	25.323	21.062	1.202	1.172	5.973
−4.0	−2.37599	1.91430	32.479	27.147	1.196	1.156	5.891
−3.8	−2.18385	1.87994	40.819	34.087	1.197	1.144	5.808
−3.6	−1.99405	1.83631	49.338	40.988	1.204	1.135	5.719
−3.4	−1.80655	1.78420	56.630	46.716	1.212	1.130	5.624
−3.2	−1.62100	1.72580	61.371	50.327	1.219	1.127	5.523
−3.0	−1.43679	1.66421	62.894	51.399	1.224	1.125	5.419
−2.8	−1.25315	1.60268	61.332	50.097	1.224	1.124	5.316
−2.6	−1.06935	1.54398	57.376	46.971	1.222	1.124	5.219
−2.4	−.88480	1.49003	51.940	42.706	1.216	1.125	5.129
−2.2	−.69907	1.44187	45.871	37.923	1.210	1.127	5.050
−2.0	−.51192	1.39984	39.812	33.097	1.203	1.130	4.982
−1.8	−.32326	1.36376	34.168	28.537	1.197	1.134	4.926
−1.6	−.13313	1.33312	29.143	24.420	1.193	1.139	4.880
−1.4	.05835	1.30722	24.810	20.822	1.192	1.144	4.845
−1.2	.25102	1.28534	21.163	17.756	1.192	1.151	4.818
−1.0	.44468	1.26671	18.154	15.195	1.195	1.159	4.800
−.8	.63913	1.25062	15.713	13.094	1.200	1.169	4.788
−.6	.83417	1.23641	13.768	11.403	1.207	1.179	4.782
−.4	1.02960	1.22347	12.251	10.069	1.217	1.189	4.778
−.2	1.22524	1.21125	11.100	9.046	1.227	1.200	4.776
−.0	1.42094	1.19932	10.260	8.287	1.238	1.211	4.773
.2	1.61659	1.18737	9.676	7.751	1.248	1.221	4.768
.4	1.81214	1.17526	9.288	7.387	1.257	1.229	4.760
.6	2.00765	1.16316	9.039	7.148	1.265	1.236	4.749
.8	2.20330	1.15158	8.861	6.980	1.269	1.243	4.738
1.0	2.39949	1.14151	8.694	6.836	1.272	1.250	4.731
1.2	2.59680	1.13447	8.498	6.680	1.272	1.260	4.735
1.4	2.79609	1.13261	8.251	6.494	1.271	1.274	4.758
1.6	2.99857	1.13911	7.953	6.274	1.268	1.296	4.813
1.8	3.20594	1.15859	7.612	6.027	1.263	1.330	4.916
2.0	3.42044	1.19794		5.768		1.379	5.092

Table 1 Continued

T = 6100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.14137	2.03915	27.392	23.707	1.155	1.142	6.095
-6.6	-4.94348	2.02927	23.072	19.765	1.167	1.156	6.118
-6.4	-4.74518	2.02132	19.643	16.621	1.182	1.173	6.150
-6.2	-4.54656	2.01491	16.939	14.135	1.198	1.191	6.187
-6.0	-4.34769	2.00966	14.834	12.192	1.217	1.211	6.230
-5.8	-4.14864	2.00528	13.237	10.711	1.236	1.230	6.274
-5.6	-3.94947	2.00147	12.087	9.639	1.254	1.249	6.315
-5.4	-3.75024	1.99792	11.364	8.958	1.269	1.264	6.346
-5.2	-3.55103	1.99429	11.088	8.682	1.277	1.272	6.360
-5.0	-3.35193	1.99015	11.328	8.874	1.277	1.270	6.349
-4.8	-3.15307	1.98492	12.220	9.649	1.266	1.258	6.310
-4.6	-2.95463	1.97780	13.964	11.181	1.249	1.237	6.247
-4.4	-2.75686	1.96768	16.836	13.696	1.229	1.212	6.169
-4.2	-2.56008	1.95315	21.123	17.421	1.212	1.189	6.085
-4.0	-2.36469	1.93251	27.014	22.477	1.202	1.169	6.002
-3.8	-2.17113	1.90408	34.404	28.704	1.199	1.154	5.919
-3.6	-1.97976	1.86663	42.673	35.519	1.201	1.143	5.833
-3.4	-1.79074	1.82001	50.682	41.936	1.209	1.135	5.741
-3.2	-1.60395	1.76549	57.046	46.879	1.217	1.131	5.643
-3.0	-1.41893	1.70564	60.647	49.570	1.223	1.128	5.539
-2.8	-1.23500	1.64369	61.073	49.796	1.226	1.126	5.434
-2.6	-1.05139	1.58278	58.680	47.870	1.226	1.126	5.332
-2.4	-.86742	1.52543	54.256	44.395	1.222	1.127	5.236
-2.2	-.68254	1.47325	48.692	40.030	1.216	1.128	5.149
-2.0	-.49638	1.42705	42.743	35.333	1.210	1.130	5.072
-1.8	-.30876	1.38694	36.955	30.711	1.203	1.133	5.008
-1.6	-.11964	1.35261	31.656	26.419	1.198	1.138	4.954
-1.4	.07090	1.32349	26.997	22.590	1.195	1.143	4.912
-1.2	.26274	1.29884	23.017	19.276	1.194	1.149	4.879
-1.0	.45569	1.27792	19.693	16.472	1.196	1.156	4.855
-.8	.64955	1.25998	16.967	14.148	1.199	1.165	4.839
-.6	.84411	1.24430	14.773	12.255	1.205	1.175	4.828
-.4	1.03918	1.23025	13.039	10.744	1.214	1.185	4.822
-.2	1.23456	1.21725	11.702	9.565	1.223	1.196	4.819
-.0	1.43010	1.20480	10.702	8.673	1.234	1.207	4.816
.2	1.62566	1.19255	9.982	8.021	1.245	1.217	4.811
.4	1.82118	1.18031	9.487	7.564	1.254	1.226	4.805
.6	2.01670	1.16819	9.154	7.252	1.262	1.234	4.796
.8	2.21238	1.15663	8.920	7.034	1.268	1.242	4.787
1.0	2.40857	1.14652	8.724	6.860	1.272	1.250	4.782
1.2	2.60584	1.13933	8.517	6.693	1.273	1.260	4.786
1.4	2.80505	1.13726	8.271	6.505	1.272	1.275	4.810
1.6	3.00740	1.14345	7.981	6.289	1.269	1.297	4.865
1.8	3.21458	1.16250	7.642	6.048	1.263	1.331	4.968
2.0	3.42887	1.20138		5.793		1.381	5.144

Table 1 Continued

T = 6200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.13167	2.05154	32.107	27.958	1.148	1.132	6.135
-6.6	-4.93430	2.03919	26.841	23.182	1.158	1.144	6.151
-6.4	-4.73641	2.02928	22.646	19.358	1.170	1.159	6.175
-6.2	-4.53812	2.02131	19.320	16.311	1.184	1.175	6.206
-6.0	-4.33951	2.01485	16.702	13.906	1.201	1.194	6.244
-5.8	-4.14065	2.00956	14.674	12.034	1.219	1.213	6.287
-5.6	-3.94162	2.00510	13.146	10.619	1.238	1.232	6.330
-5.4	-3.74247	2.00117	12.070	9.615	1.255	1.250	6.368
-5.2	-3.54328	1.99744	11.430	9.010	1.269	1.263	6.396
-5.0	-3.34413	1.99353	11.260	8.830	1.275	1.269	6.404
-4.8	-3.14513	1.98896	11.641	9.148	1.273	1.265	6.387
-4.6	-2.94642	1.98307	12.728	10.093	1.261	1.251	6.342
-4.4	-2.74820	1.97495	14.737	11.853	1.243	1.230	6.275
-4.2	-2.55075	1.96340	17.947	14.654	1.225	1.206	6.195
-4.0	-2.35442	1.94687	22.624	18.692	1.210	1.183	6.112
-3.8	-2.15963	1.92363	28.869	24.009	1.202	1.165	6.028
-3.6	-1.96681	1.89208	36.425	30.316	1.201	1.152	5.943
-3.4	-1.77627	1.85132	44.497	36.898	1.206	1.142	5.855
-3.2	-1.58808	1.80167	51.848	42.719	1.214	1.136	5.759
-3.0	-1.40198	1.74490	57.171	46.794	1.222	1.132	5.658
-2.8	-1.21744	1.68390	59.582	48.550	1.227	1.129	5.552
-2.6	-1.03372	1.62194	58.959	47.977	1.229	1.128	5.447
-2.4	-.85008	1.56199	55.839	45.505	1.227	1.128	5.345
-2.2	-.66585	1.50626	51.055	41.760	1.223	1.129	5.251
-2.0	-.48057	1.45607	45.443	37.358	1.216	1.131	5.167
-1.8	-.29394	1.41193	39.671	32.791	1.210	1.134	5.094
-1.6	-.10583	1.37382	34.191	28.401	1.204	1.137	5.032
-1.4	.08376	1.34128	29.254	24.388	1.200	1.142	4.982
-1.2	.27473	1.31367	24.963	20.851	1.197	1.147	4.943
-1.0	.46692	1.29024	21.329	17.816	1.197	1.154	4.913
-.8	.66013	1.27024	18.318	15.271	1.200	1.162	4.891
-.6	.85417	1.25292	15.868	13.176	1.204	1.171	4.877
-.4	1.04882	1.23759	13.912	11.485	1.211	1.181	4.868
-.2	1.24390	1.22364	12.381	10.147	1.220	1.192	4.862
-.0	1.43922	1.21053	11.216	9.117	1.230	1.203	4.858
.2	1.63465	1.19787	10.357	8.346	1.241	1.213	4.854
.4	1.83012	1.18542	9.746	7.791	1.251	1.223	4.849
.6	2.02562	1.17320	9.322	7.401	1.260	1.232	4.842
.8	2.22130	1.16160	9.023	7.124	1.266	1.241	4.834
1.0	2.41749	1.15144	8.786	6.913	1.271	1.250	4.831
1.2	2.61473	1.14416	8.559	6.724	1.273	1.261	4.837
1.4	2.81386	1.14187	8.307	6.527	1.273	1.276	4.861
1.6	3.01608	1.14773	8.016	6.309	1.271	1.299	4.916
1.8	3.22311	1.16642	7.670	6.069	1.264	1.332	5.020
2.0	3.43718	1.20486		5.814		1.382	5.196

Table 1 Continued

T = 6300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.12157	2.06649	37.610	32.879	1.144	1.123	6.184
-6.6	-4.92480	2.05117	31.255	27.156	1.151	1.134	6.191
-6.4	-4.72741	2.03888	26.173	22.553	1.161	1.147	6.207
-6.2	-4.52952	2.02901	22.130	18.868	1.173	1.162	6.232
-6.0	-4.33123	2.02106	18.927	15.938	1.188	1.178	6.264
-5.8	-4.13261	2.01461	16.412	13.629	1.204	1.197	6.302
-5.6	-3.93376	2.00928	14.473	11.842	1.222	1.216	6.344
-5.4	-3.73474	2.00476	13.031	10.506	1.240	1.235	6.386
-5.2	-3.53562	2.00070	12.042	9.583	1.257	1.251	6.422
-5.0	-3.33648	1.99676	11.504	9.070	1.268	1.263	6.445
-4.8	-3.13740	1.99252	11.459	9.002	1.273	1.266	6.447
-4.6	-2.93851	1.98743	12.013	9.470	1.268	1.260	6.423
-4.4	-2.73998	1.98073	13.328	10.615	1.256	1.244	6.372
-4.2	-2.54203	1.97142	15.643	12.636	1.238	1.223	6.301
-4.0	-2.34496	1.95815	19.231	15.748	1.221	1.199	6.220
-3.8	-2.14916	1.93928	24.306	20.104	1.209	1.178	6.136
-3.6	-1.95507	1.91307	30.870	25.640	1.204	1.162	6.051
-3.4	-1.76308	1.87812	38.478	31.926	1.205	1.150	5.965
-3.2	-1.57343	1.83390	46.182	38.127	1.211	1.142	5.873
-3.0	-1.38607	1.78128	52.682	43.212	1.219	1.136	5.774
-2.8	-1.20064	1.72253	56.841	46.342	1.227	1.133	5.669
-2.6	-1.01650	1.66074	58.049	47.163	1.231	1.131	5.562
-2.4	-.83291	1.59918	56.448	45.852	1.231	1.130	5.456
-2.2	-.64913	1.54054	52.709	42.921	1.228	1.130	5.356
-2.0	-.46458	1.48669	47.681	38.992	1.223	1.132	5.265
-1.8	-.27885	1.43865	42.119	34.625	1.216	1.134	5.184
-1.6	-.09170	1.39669	36.592	30.240	1.210	1.137	5.114
-1.4	.09693	1.36061	31.459	26.112	1.205	1.141	5.057
-1.2	.28700	1.32935	26.903	22.397	1.201	1.146	5.010
-1.0	.47838	1.30372	22.987	19.159	1.200	1.152	4.973
-.8	.67090	1.28147	19.703	16.408	1.201	1.159	4.946
-.6	.86436	1.26231	17.003	14.119	1.204	1.167	4.927
-.4	1.05855	1.24554	14.825	12.251	1.210	1.177	4.914
-.2	1.25327	1.23049	13.101	10.757	1.218	1.187	4.905
-.0	1.44834	1.21660	11.769	9.589	1.227	1.198	4.899
.2	1.64361	1.20341	10.767	8.700	1.238	1.209	4.895
.4	1.83898	1.19064	10.037	8.043	1.248	1.219	4.890
.6	2.03444	1.17826	9.518	7.571	1.257	1.229	4.884
.8	2.23011	1.16657	9.148	7.233	1.265	1.238	4.878
1.0	2.42629	1.15636	8.863	6.979	1.270	1.248	4.876
1.2	2.62350	1.14894	8.610	6.763	1.273	1.260	4.883
1.4	2.82256	1.14647	8.346	6.555	1.273	1.275	4.908
1.6	3.02467	1.15207	8.054	6.332	1.272	1.298	4.963
1.8	3.23152	1.17037	7.700	6.092	1.264	1.332	5.067
2.0	3.44540	1.20838		5.838		1.381	5.244

Table 1 Continued

T = 6400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.11098	2.08440	43.995	38.539	1.142	1.117	6.241
-6.6	-4.91493	2.06554	36.390	31.747	1.146	1.126	6.239
-6.4	-4.71813	2.05039	30.292	26.258	1.154	1.137	6.247
-6.2	-4.52071	2.03824	25.420	21.845	1.164	1.150	6.264
-6.0	-4.32280	2.02848	21.543	18.317	1.176	1.165	6.289
-5.8	-4.12449	2.02060	18.479	15.515	1.191	1.182	6.322
-5.6	-3.92587	2.01418	16.081	13.316	1.208	1.200	6.360
-5.4	-3.72702	2.00884	14.247	11.626	1.225	1.219	6.402
-5.2	-3.52801	2.00425	12.905	10.382	1.243	1.237	6.442
-5.0	-3.32892	2.00006	12.020	9.554	1.258	1.252	6.475
-4.8	-3.12983	1.99587	11.604	9.149	1.268	1.262	6.493
-4.6	-2.93085	1.99122	11.710	9.219	1.270	1.263	6.488
-4.4	-2.73210	1.98549	12.469	9.865	1.264	1.254	6.456
-4.2	-2.53378	1.97781	14.057	11.247	1.250	1.237	6.399
-4.0	-2.33615	1.96704	16.727	13.569	1.233	1.215	6.324
-3.8	-2.13955	1.95171	20.736	17.026	1.218	1.193	6.242
-3.6	-1.94438	1.93011	26.234	21.705	1.209	1.174	6.157
-3.4	-1.75109	1.90055	33.070	27.417	1.206	1.159	6.071
-3.2	-1.56001	1.86190	40.620	33.583	1.210	1.148	5.982
-3.0	-1.37129	1.81416	47.786	39.280	1.217	1.141	5.886
-2.8	-1.18476	1.75875	53.308	43.535	1.224	1.136	5.784
-2.6	-.99993	1.69837	56.245	45.696	1.231	1.134	5.677
-2.4	-.81611	1.63626	56.291	45.631	1.234	1.132	5.568
-2.2	-.63255	1.57551	53.821	43.667	1.233	1.132	5.463
-2.0	-.44854	1.51852	49.593	40.369	1.228	1.133	5.365
-1.8	-.26359	1.46682	44.420	36.329	1.223	1.134	5.277
-1.6	-.07735	1.42108	38.972	32.041	1.216	1.137	5.200
-1.4	.11035	1.38138	33.717	27.859	1.210	1.140	5.134
-1.2	.29951	1.34734	28.933	23.998	1.206	1.145	5.080
-1.0	.49006	1.31834	24.748	20.572	1.203	1.150	5.037
-.8	.68185	1.29365	21.191	17.619	1.203	1.157	5.004
-.6	.87469	1.27249	18.233	15.133	1.205	1.164	4.979
-.4	1.06837	1.25411	15.821	13.082	1.209	1.173	4.962
-.2	1.26269	1.23782	13.893	11.423	1.216	1.183	4.950
-.0	1.45746	1.22300	12.382	10.110	1.225	1.194	4.942
.2	1.65252	1.20916	11.228	9.095	1.234	1.204	4.937
.4	1.84776	1.19598	10.371	8.333	1.245	1.215	4.931
.6	2.04315	1.18335	9.749	7.773	1.254	1.225	4.926
.8	2.23879	1.17154	9.301	7.368	1.262	1.236	4.922
1.0	2.43495	1.16121	8.963	7.066	1.268	1.246	4.921
1.2	2.63212	1.15369	8.678	6.821	1.272	1.258	4.929
1.4	2.83112	1.15102	8.400	6.597	1.273	1.275	4.955
1.6	3.03312	1.15634	8.105	6.369	1.272	1.298	5.011
1.8	3.23983	1.17433	7.745	6.129	1.264	1.331	5.115
2.0	3.45351	1.21192		5.877		1.381	5.292

Table 1 Continued

T = 6500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.09984	2.10570	51.330	44.973	1.141	1.111	6.307
-6.6	-4.90462	2.08266	42.315	36.991	1.144	1.119	6.295
-6.4	-4.70850	2.06413	35.056	30.509	1.149	1.129	6.294
-6.2	-4.51164	2.04925	29.235	25.276	1.157	1.140	6.303
-6.0	-4.31418	2.03731	24.590	21.071	1.167	1.154	6.321
-5.8	-4.11623	2.02770	20.900	17.714	1.180	1.169	6.348
-5.6	-3.91790	2.01993	17.989	15.055	1.195	1.186	6.381
-5.4	-3.71927	2.01356	15.722	12.977	1.212	1.204	6.420
-5.2	-3.52042	2.00823	14.007	11.394	1.229	1.223	6.460
-5.0	-3.32143	2.00357	12.777	10.255	1.246	1.240	6.498
-4.8	-3.12237	1.99921	12.016	9.539	1.260	1.254	6.526
-4.6	-2.92335	1.99473	11.742	9.264	1.268	1.261	6.538
-4.4	-2.72447	1.98958	12.037	9.499	1.267	1.259	6.525
-4.2	-2.52590	1.98306	13.041	10.363	1.258	1.248	6.485
-4.0	-2.32785	1.97418	14.961	12.029	1.244	1.229	6.422
-3.8	-2.13061	1.96167	18.049	14.701	1.228	1.207	6.345
-3.6	-1.93455	1.94393	22.528	18.538	1.215	1.186	6.261
-3.4	-1.74011	1.91921	28.452	23.535	1.209	1.169	6.176
-3.2	-1.54770	1.88596	35.496	29.360	1.209	1.156	6.088
-3.0	-1.35760	1.84347	42.845	35.287	1.214	1.147	5.995
-2.8	-1.16982	1.79230	49.306	40.356	1.222	1.141	5.895
-2.6	-.98407	1.73444	53.722	43.704	1.229	1.137	5.790
-2.4	-.79976	1.67290	55.419	44.898	1.234	1.135	5.680
-2.2	-.61615	1.61095	54.376	44.012	1.235	1.134	5.572
-2.0	-.43250	1.55145	51.155	41.487	1.233	1.134	5.469
-1.8	-.24818	1.49642	46.557	37.905	1.228	1.135	5.373
-1.6	-.06275	1.44704	41.325	33.815	1.222	1.137	5.289
-1.4	.12404	1.40370	36.041	29.644	1.216	1.140	5.215
-1.2	.31230	1.36626	31.080	25.677	1.210	1.144	5.154
-1.0	.50200	1.33423	26.644	22.081	1.207	1.149	5.104
-.8	.69302	1.30692	22.812	18.931	1.205	1.155	5.065
-.6	.88519	1.28357	19.590	16.246	1.206	1.162	5.035
-.4	1.07831	1.26341	16.934	14.006	1.209	1.170	5.013
-.2	1.27218	1.24571	14.789	12.175	1.215	1.180	4.998
-.0	1.46661	1.22982	13.090	10.709	1.222	1.190	4.987
.2	1.66142	1.21521	11.775	9.562	1.231	1.201	4.980
.4	1.85649	1.20150	10.780	8.684	1.241	1.212	4.975
.6	2.05178	1.18854	10.045	8.029	1.251	1.223	4.970
.8	2.24737	1.17651	9.508	7.547	1.260	1.234	4.967
1.0	2.44349	1.16607	9.105	7.188	1.267	1.245	4.968
1.2	2.64063	1.15840	8.777	6.904	1.271	1.258	4.977
1.4	2.83956	1.15556	8.474	6.655	1.273	1.275	5.004
1.6	3.04147	1.16065	8.165	6.414	1.273	1.298	5.061
1.8	3.24802	1.17828	7.794	6.167	1.264	1.333	5.166
2.0	3.46152	1.21550		5.911		1.382	5.344

Table 1 Continued

T = 6600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.08805	2.13082	59.665	52.196	1.143	1.107	6.380
-6.6	-4.89378	2.10290	49.070	42.917	1.143	1.114	6.358
-6.4	-4.69846	2.08039	40.507	35.338	1.146	1.122	6.348
-6.2	-4.50225	2.06230	33.621	29.188	1.152	1.132	6.348
-6.0	-4.30532	2.04777	28.103	24.226	1.160	1.144	6.359
-5.8	-4.10780	2.03610	23.698	20.244	1.171	1.158	6.378
-5.6	-3.90981	2.02670	20.208	17.069	1.184	1.173	6.406
-5.4	-3.71145	2.01906	17.463	14.563	1.199	1.190	6.441
-5.2	-3.51281	2.01278	15.338	12.615	1.216	1.208	6.479
-5.0	-3.31396	2.00745	13.750	11.152	1.233	1.227	6.519
-4.8	-3.11498	2.00271	12.648	10.128	1.249	1.243	6.553
-4.6	-2.91597	1.99815	12.025	9.536	1.261	1.254	6.577
-4.4	-2.71703	1.99329	11.916	9.409	1.266	1.259	6.581
-4.2	-2.51829	1.98752	12.424	9.830	1.264	1.255	6.560
-4.0	-2.31993	1.98003	13.706	10.936	1.253	1.241	6.512
-3.8	-2.12220	1.96969	15.987	12.909	1.238	1.221	6.444
-3.6	-1.92544	1.95509	19.509	15.939	1.224	1.200	6.363
-3.4	-1.73003	1.93452	24.439	20.128	1.214	1.181	6.279
-3.2	-1.53642	1.90627	30.696	25.352	1.211	1.165	6.192
-3.0	-1.34498	1.86906	37.766	31.125	1.213	1.154	6.101
-2.8	-1.15590	1.82266	44.661	36.611	1.220	1.146	6.005
-2.6	-.96905	1.76827	50.183	40.876	1.228	1.141	5.901
-2.4	-.78401	1.70840	53.364	43.237	1.234	1.138	5.792
-2.2	-.60011	1.64624	53.830	43.488	1.238	1.136	5.682
-2.0	-.41658	1.58498	51.820	41.878	1.237	1.136	5.574
-1.8	-.23273	1.52712	48.018	38.921	1.234	1.137	5.473
-1.6	-.04801	1.47433	43.207	35.180	1.228	1.138	5.381
-1.4	.13795	1.42742	38.052	31.140	1.222	1.140	5.300
-1.2	.32533	1.38654	33.025	27.159	1.216	1.144	5.232
-1.0	.51417	1.35135	28.415	23.458	1.211	1.148	5.174
-.8	.70439	1.32128	24.361	20.157	1.209	1.153	5.129
-.6	.89586	1.29557	20.903	17.303	1.208	1.160	5.093
-.4	1.08838	1.27346	18.025	14.896	1.210	1.168	5.066
-.2	1.28177	1.25420	15.676	12.908	1.214	1.177	5.047
-.0	1.47581	1.23711	13.797	11.299	1.221	1.187	5.033
.2	1.67033	1.22160	12.323	10.023	1.229	1.197	5.024
.4	1.86520	1.20725	11.194	9.035	1.239	1.208	5.017
.6	2.06036	1.19388	10.347	8.286	1.249	1.220	5.013
.8	2.25586	1.18159	9.718	7.727	1.258	1.231	5.010
1.0	2.45194	1.17094	9.247	7.309	1.265	1.243	5.012
1.2	2.64903	1.16312	8.871	6.983	1.270	1.257	5.023
1.4	2.84790	1.16010	8.539	6.707	1.273	1.274	5.051
1.6	3.04969	1.16493	8.214	6.450	1.274	1.298	5.109
1.8	3.25612	1.18228	7.828	6.194	1.264	1.333	5.215
2.0	3.46944	1.21910		5.933		1.382	5.393

Table 1 Continued

T = 6700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.07557	2.16021	69.042	60.226	1.146	1.104	6.463
-6.6	-4.88238	2.12665	56.726	49.553	1.145	1.110	6.430
-6.4	-4.68795	2.09952	46.714	40.778	1.146	1.117	6.409
-6.2	-4.49249	2.07767	38.622	33.616	1.149	1.126	6.401
-6.0	-4.29618	2.06011	32.121	27.812	1.155	1.136	6.403
-5.8	-4.09917	2.04600	26.917	23.132	1.164	1.148	6.415
-5.6	-3.90158	2.03465	22.771	19.383	1.175	1.162	6.436
-5.4	-3.70354	2.02549	19.490	16.400	1.188	1.178	6.465
-5.2	-3.50515	2.01802	16.920	14.055	1.204	1.195	6.500
-5.0	-3.30648	2.01182	14.951	12.249	1.221	1.213	6.539
-4.8	-3.10763	2.00649	13.503	10.915	1.237	1.230	6.576
-4.6	-2.90869	2.00164	12.544	10.022	1.252	1.245	6.608
-4.4	-2.70973	1.99682	12.079	9.574	1.262	1.255	6.625
-4.2	-2.51089	1.99148	12.167	9.620	1.265	1.256	6.621
-4.0	-2.31232	1.98494	12.926	10.263	1.259	1.249	6.591
-3.8	-2.11423	1.97623	14.540	11.654	1.248	1.233	6.535
-3.6	-1.91691	1.96411	17.239	13.981	1.233	1.213	6.462
-3.4	-1.72070	1.94700	21.245	17.404	1.221	1.193	6.379
-3.2	-1.52606	1.92315	26.633	21.941	1.214	1.175	6.293
-3.0	-1.33339	1.89096	33.156	27.324	1.213	1.162	6.204
-2.8	-1.14300	1.84956	40.097	32.916	1.218	1.152	6.110
-2.6	-.95496	1.79933	46.349	37.821	1.225	1.146	6.009
-2.4	-.76900	1.74208	50.794	41.197	1.233	1.141	5.902
-2.2	-.58457	1.68073	52.715	42.570	1.238	1.139	5.791
-2.0	-.40094	1.61855	52.030	41.955	1.240	1.138	5.680
-1.8	-.21737	1.55848	49.198	39.734	1.238	1.138	5.574
-1.6	-.03321	1.50266	44.964	36.449	1.234	1.139	5.476
-1.4	.15200	1.45234	40.054	32.625	1.228	1.141	5.388
-1.2	.33854	1.40803	35.036	28.684	1.221	1.144	5.311
-1.0	.52653	1.36963	30.292	24.910	1.216	1.147	5.247
-.8	.71595	1.33666	26.030	21.472	1.212	1.152	5.194
-.6	.90669	1.30845	22.338	18.452	1.211	1.158	5.153
-.4	1.09858	1.28425	19.225	15.872	1.211	1.165	5.120
-.2	1.29143	1.26329	16.660	13.718	1.214	1.174	5.096
-.0	1.48505	1.24485	14.586	11.956	1.220	1.183	5.079
.2	1.67924	1.22832	12.943	10.545	1.227	1.193	5.067
.4	1.87387	1.21324	11.669	9.438	1.236	1.204	5.059
.6	2.06887	1.19934	10.699	8.588	1.246	1.216	5.054
.8	2.26427	1.18670	9.973	7.947	1.255	1.228	5.052
1.0	2.46028	1.17584	9.426	7.463	1.263	1.240	5.054
1.2	2.65731	1.16783	8.996	7.090	1.269	1.254	5.066
1.4	2.85611	1.16461	8.630	6.783	1.272	1.272	5.095
1.6	3.05783	1.16922	8.286	6.507	1.273	1.297	5.154
1.8	3.26411	1.18624	7.886	6.242	1.263	1.331	5.260
2.0	3.47725	1.22271		5.978		1.381	5.439

Table 1 Continued

T = 6800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.06234	2.19432	79.505	69.047	1.151	1.101	6.554
-6.6	-4.87033	2.15431	65.325	56.911	1.148	1.106	6.509
-6.4	-4.67692	2.12187	53.714	46.852	1.146	1.112	6.478
-6.2	-4.48232	2.09566	44.294	38.591	1.148	1.120	6.460
-6.0	-4.28671	2.07456	36.691	31.857	1.152	1.129	6.454
-5.8	-4.09028	2.05760	30.586	26.406	1.158	1.140	6.458
-5.6	-3.89316	2.04396	25.704	22.016	1.168	1.153	6.472
-5.4	-3.69550	2.03298	21.822	18.506	1.179	1.167	6.495
-5.2	-3.49741	2.02409	18.758	15.722	1.193	1.183	6.525
-5.0	-3.29897	2.01681	16.373	13.545	1.209	1.200	6.561
-4.8	-3.10029	2.01070	14.566	11.887	1.225	1.218	6.598
-4.6	-2.90145	2.00535	13.273	10.694	1.241	1.234	6.634
-4.4	-2.70253	2.00034	12.475	9.946	1.254	1.247	6.661
-4.2	-2.50366	1.99518	12.195	9.662	1.262	1.254	6.671
-4.0	-2.30495	1.98924	12.510	9.911	1.262	1.253	6.657
-3.8	-2.10659	1.98172	13.568	10.813	1.255	1.243	6.617
-3.6	-1.90883	1.97153	15.565	12.533	1.242	1.225	6.554
-3.4	-1.71199	1.95725	18.735	15.250	1.229	1.205	6.477
-3.2	-1.51646	1.93720	23.244	19.071	1.219	1.186	6.393
-3.0	-1.32269	1.90964	29.042	23.902	1.215	1.171	6.305
-2.8	-1.13105	1.87322	35.684	29.316	1.217	1.159	6.213
-2.6	-.94176	1.82757	42.267	34.548	1.223	1.151	6.115
-2.4	-.75474	1.77376	47.653	38.705	1.231	1.145	6.010
-2.2	-.56958	1.71418	50.882	41.106	1.238	1.142	5.899
-2.0	-.38563	1.65200	51.541	41.510	1.242	1.140	5.787
-1.8	-.20213	1.59040	49.821	40.120	1.242	1.140	5.677
-1.6	-.01838	1.53200	46.326	37.407	1.238	1.140	5.573
-1.4	.16619	1.47852	41.809	33.906	1.233	1.141	5.478
-1.2	.35195	1.43084	36.916	30.087	1.227	1.144	5.395
-1.0	.53912	1.38916	32.114	26.299	1.221	1.147	5.323
-.8	.72772	1.35319	27.692	22.763	1.217	1.151	5.264
-.6	.91771	1.32234	23.791	19.602	1.214	1.157	5.215
-.4	1.10893	1.29589	20.461	16.864	1.213	1.163	5.178
-.2	1.30122	1.27307	17.685	14.552	1.215	1.171	5.149
-.0	1.49436	1.25314	15.417	12.642	1.220	1.180	5.128
.2	1.68819	1.23546	13.606	11.096	1.226	1.190	5.113
.4	1.88255	1.21951	12.184	9.870	1.234	1.201	5.103
.6	2.07735	1.20501	11.090	8.918	1.244	1.213	5.097
.8	2.27262	1.19195	10.262	8.191	1.253	1.225	5.095
1.0	2.46854	1.18078	9.632	7.640	1.261	1.238	5.098
1.2	2.66550	1.17256	9.144	7.215	1.267	1.253	5.110
1.4	2.86423	1.16913	8.737	6.871	1.271	1.271	5.141
1.6	3.06583	1.17347	8.368	6.572	1.273	1.296	5.200
1.8	3.27200	1.19023	7.953	6.292	1.264	1.331	5.307
2.0	3.48497	1.22634		6.018		1.381	5.487

Table 1 Continued

T = 6900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-5.04829	2.23358	91.035	78.623	1.158	1.099	6.656
-6.6	-4.85759	2.18629	74.891	64.992	1.152	1.104	6.598
-6.4	-4.66531	2.14779	61.566	53.582	1.149	1.109	6.555
-6.2	-4.47166	2.11659	50.684	44.134	1.148	1.116	6.527
-6.0	-4.27686	2.09140	41.861	36.391	1.150	1.123	6.511
-5.8	-4.08109	2.07113	34.749	30.089	1.155	1.133	6.507
-5.6	-3.88452	2.05482	29.040	24.992	1.162	1.144	6.513
-5.4	-3.68730	2.04171	24.484	20.896	1.172	1.157	6.529
-5.2	-3.48956	2.03113	20.870	17.628	1.184	1.172	6.554
-5.0	-3.29140	2.02254	18.028	15.045	1.198	1.188	6.585
-4.8	-3.09293	2.01544	15.833	13.042	1.214	1.206	6.621
-4.6	-2.89423	2.00940	14.199	11.540	1.230	1.223	6.658
-4.4	-2.69540	2.00400	13.071	10.498	1.245	1.238	6.690
-4.2	-2.49653	1.99877	12.451	9.909	1.257	1.249	6.712
-4.0	-2.29776	1.99315	12.379	9.812	1.262	1.253	6.713
-3.8	-2.09922	1.98644	12.961	10.293	1.259	1.248	6.689
-3.6	-1.90114	1.97770	14.361	11.490	1.250	1.235	6.640
-3.4	-1.70379	1.96566	16.788	13.573	1.237	1.217	6.570
-3.2	-1.50753	1.94879	20.454	16.697	1.225	1.198	6.490
-3.0	-1.31280	1.92530	25.450	20.891	1.218	1.180	6.403
-2.8	-1.12001	1.89359	31.556	25.919	1.217	1.167	6.313
-2.6	-.92950	1.85269	38.122	31.198	1.222	1.157	6.218
-2.4	-.74133	1.80288	44.114	35.887	1.229	1.150	6.115
-2.2	-.55528	1.74591	48.450	39.173	1.237	1.145	6.007
-2.0	-.37080	1.68462	50.414	40.581	1.242	1.143	5.894
-1.8	-.18717	1.62228	49.896	40.096	1.244	1.142	5.780
-1.6	-.00365	1.56186	47.303	38.062	1.243	1.142	5.672
-1.4	.18040	1.50556	43.329	34.990	1.238	1.142	5.571
-1.2	.36547	1.45469	38.679	31.382	1.232	1.144	5.481
-1.0	.55185	1.40978	33.901	27.643	1.226	1.147	5.402
-.8	.73966	1.37075	29.369	24.050	1.221	1.151	5.336
-.6	.92888	1.33715	25.288	20.772	1.217	1.156	5.281
-.4	1.11942	1.30833	21.750	17.889	1.216	1.162	5.237
-.2	1.31111	1.28352	18.766	15.424	1.217	1.169	5.203
-.0	1.50375	1.26198	16.307	13.366	1.220	1.178	5.178
.2	1.69718	1.24302	14.319	11.685	1.225	1.187	5.160
.4	1.89123	1.22611	12.744	10.337	1.233	1.198	5.148
.6	2.08581	1.21089	11.521	9.280	1.242	1.209	5.140
.8	2.28092	1.19734	10.583	8.463	1.251	1.222	5.137
1.0	2.47672	1.18582	9.868	7.840	1.259	1.235	5.141
1.2	2.67360	1.17733	9.314	7.358	1.266	1.251	5.154
1.4	2.87225	1.17367	8.861	6.974	1.271	1.270	5.185
1.6	3.07377	1.17778	8.462	6.648	1.273	1.295	5.246
1.8	3.27980	1.19422	8.035	6.351	1.265	1.330	5.353
2.0	3.49261	1.23000		6.067		1.380	5.535

Table 1 Continued

T = 7000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.03342	2.27838	103.503	88.811	1.165	1.098	6.766
-6.6	-4.84411	2.22298	85.368	73.710	1.158	1.101	6.695
-6.4	-4.65306	2.17764	70.244	60.917	1.153	1.106	6.640
-6.2	-4.46048	2.14076	57.788	50.230	1.150	1.112	6.601
-6.0	-4.26658	2.11090	47.635	41.408	1.150	1.119	6.575
-5.8	-4.07156	2.08682	39.413	34.185	1.153	1.127	6.562
-5.6	-3.87562	2.06743	32.797	28.317	1.158	1.137	6.560
-5.4	-3.67891	2.05183	27.493	23.578	1.166	1.149	6.569
-5.2	-3.48157	2.03928	23.266	19.778	1.176	1.162	6.587
-5.0	-3.28374	2.02912	19.922	16.753	1.189	1.178	6.614
-4.8	-3.08552	2.02083	17.305	14.377	1.204	1.194	6.646
-4.6	-2.88701	2.01392	15.308	12.553	1.219	1.211	6.682
-4.4	-2.68830	2.00793	13.856	11.217	1.235	1.228	6.717
-4.2	-2.48949	2.00243	12.912	10.340	1.249	1.241	6.745
-4.0	-2.29069	1.99689	12.496	9.932	1.258	1.250	6.759
-3.8	-2.09205	1.99068	12.670	10.051	1.260	1.251	6.751
-3.6	-1.89373	1.98298	13.564	10.804	1.255	1.243	6.717
-3.4	-1.69599	1.97270	15.360	12.342	1.245	1.228	6.659
-3.2	-1.49914	1.95843	18.277	14.831	1.232	1.209	6.584
-3.0	-1.30359	1.93848	22.473	18.377	1.223	1.191	6.500
-2.8	-1.10977	1.91109	27.912	22.896	1.219	1.175	6.411
-2.6	-.91807	1.87489	34.188	27.993	1.221	1.163	6.318
-2.4	-.72872	1.82946	40.449	32.952	1.228	1.155	6.219
-2.2	-.54165	1.77580	45.605	36.924	1.235	1.149	6.112
-2.0	-.35646	1.71626	48.738	39.248	1.242	1.146	5.999
-1.8	-.17251	1.65400	49.428	39.681	1.246	1.144	5.885
-1.6	.01095	1.59220	47.848	38.402	1.246	1.143	5.772
-1.4	.19464	1.53350	44.561	35.852	1.243	1.144	5.666
-1.2	.37911	1.47965	40.271	32.540	1.238	1.145	5.569
-1.0	.56476	1.43156	35.611	28.915	1.232	1.148	5.484
-.8	.75179	1.38944	31.031	25.313	1.226	1.151	5.410
-.6	.94025	1.35300	26.806	21.946	1.221	1.155	5.349
-.4	1.13007	1.32167	23.077	18.935	1.219	1.161	5.299
-.2	1.32113	1.29473	19.893	16.326	1.218	1.168	5.260
-.0	1.51324	1.27142	17.241	14.125	1.221	1.176	5.230
.2	1.70623	1.25106	15.076	12.307	1.225	1.185	5.208
.4	1.89994	1.23306	13.346	10.837	1.231	1.195	5.193
.6	2.09426	1.21704	11.987	9.671	1.240	1.206	5.184
.8	2.28918	1.20289	10.936	8.761	1.248	1.219	5.181
1.0	2.48485	1.19097	10.131	8.060	1.257	1.233	5.184
1.2	2.68163	1.18216	9.505	7.518	1.264	1.249	5.198
1.4	2.88019	1.17823	8.999	7.089	1.269	1.268	5.230
1.6	3.08159	1.18207	8.563	6.730	1.272	1.294	5.291
1.8	3.28750	1.19826	8.123	6.412	1.267	1.330	5.400
2.0	3.50015	1.23367		6.114		1.380	5.583

Table 1 Continued

T = 7100

Log ρ	Log p	Z	C_p/R	C_V/R	γ	$γ_E$	a/a_a
-6.8	-5.01772	2.32901	116.842	99.529	1.174	1.097	6.887
-6.6	-4.82988	2.26470	96.754	83.040	1.165	1.100	6.801
-6.4	-4.64015	2.21175	79.772	68.869	1.158	1.104	6.733
-6.2	-4.44873	2.16849	65.662	56.902	1.154	1.109	6.682
-6.0	-4.25583	2.13334	54.074	46.939	1.152	1.115	6.646
-5.8	-4.06166	2.10490	44.640	38.729	1.153	1.122	6.623
-5.6	-3.86641	2.08198	37.015	32.021	1.156	1.131	6.613
-5.4	-3.67028	2.06352	30.884	26.580	1.162	1.142	6.614
-5.2	-3.47342	2.04867	25.977	22.195	1.170	1.154	6.625
-5.0	-3.27596	2.03670	22.075	18.686	1.181	1.168	6.646
-4.8	-3.07804	2.02698	19.000	15.904	1.195	1.184	6.674
-4.6	-2.87976	2.01898	16.613	13.735	1.210	1.200	6.707
-4.4	-2.68121	2.01223	14.817	12.094	1.225	1.217	6.742
-4.2	-2.48250'	2.00626	13.554	10.930	1.240	1.232	6.775
-4.0	-2.28373	2.00057	12.810	10.231	1.252	1.244	6.798
-3.8	-2.08503	1.99460	12.618	10.023	1.259	1.250	6.803
-3.6	-1.88656	1.98761	13.068	10.385	1.258	1.247	6.785
-3.4	-1.68852	1.97865	14.315	11.441	1.251	1.237	6.740
-3.2	-1.49120	1.96646	16.554	13.351	1.240	1.220	6.674
-3.0	-1.29497	1.94947	19.977	16.256	1.229	1.201	6.594
-2.8	-1.10025	1.92591	24.669	20.182	1.222	1.184	6.508
-2.6	-.90748	1.89414	30.429	24.909	1.222	1.171	6.416
-2.4	-.71696	1.85320	36.641	29.882	1.226	1.161	6.319
-2.2	-.52881	1.80335	42.318	34.305	1.234	1.154	6.215
-2.0	-.34277	1.74631	46.426	37.409	1.241	1.149	6.104
-1.8	-.15831	1.68492	48.283	38.737	1.246	1.146	5.989
-1.6	.02528	1.62245	47.787	38.273	1.249	1.145	5.874
-1.4	.20876	1.56187	45.325	36.342	1.247	1.145	5.763
-1.2	.39275	1.50536	41.544	33.427	1.243	1.146	5.660
-1.0	.57775	1.45426	37.115	30.004	1.237	1.148	5.568
-.8	.76405	1.40907	32.569	26.456	1.231	1.151	5.488
-.6	.95175	1.36974	28.257	23.050	1.226	1.155	5.420
-.4	1.14086	1.33582	24.377	19.941	1.222	1.160	5.364
-.2	1.33127	1.30664	21.013	17.209	1.221	1.166	5.319
-.0	1.52282	1.28146	18.179	14.877	1.222	1.174	5.285
.2	1.71534	1.25958	15.845	12.931	1.225	1.183	5.259
.4	1.90867	1.24039	13.962	11.342	1.231	1.193	5.241
.6	2.10270	1.22346	12.469	10.070	1.238	1.204	5.229
.8	2.29741	1.20865	11.305	9.069	1.247	1.216	5.225
1.0	2.49293	1.19622	10.405	8.292	1.255	1.230	5.228
1.2	2.68959	1.18706	9.706	7.689	1.262	1.247	5.242
1.4	2.88803	1.18284	9.147	7.213	1.268	1.267	5.274
1.6	3.08935	1.18641	8.674	6.821	1.272	1.293	5.337
1.8	3.29512	1.20227	8.230	6.481	1.270	1.329	5.447
2.0	3.50761	1.23737		6.170		1.380	5.630

Table 1 Continued

T = 7200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-5.00119	2.38574	130.828	110.579	1.183	1.096	7.017
-6.6	-4.81487	2.31178	108.938	92.868	1.173	1.099	6.916
-6.4	-4.62654	2.25047	90.125	77.376	1.165	1.102	6.834
-6.2	-4.43637	2.20010	74.297	64.127	1.159	1.107	6.770
-6.0	-4.24456	2.15900	61.186	52.981	1.155	1.112	6.723
-5.8	-4.05132	2.12565	50.447	43.726	1.154	1.118	6.690
-5.6	-3.85686	2.09869	41.719	36.119	1.155	1.126	6.671
-5.4	-3.66138	2.07696	34.677	29.916	1.159	1.136	6.664
-5.2	-3.46506	2.05947	29.022	24.894	1.166	1.147	6.668
-5.0	-3.26804	2.04539	24.507	20.855	1.175	1.160	6.682
-4.8	-3.07046	2.03400	20.926	17.633	1.187	1.174	6.705
-4.6	-2.87245	2.02471	18.119	15.092	1.201	1.190	6.735
-4.4	-2.67411	2.01700	15.959	13.131	1.215	1.206	6.768
-4.2	-2.47554	2.01038	14.373	11.678	1.231	1.223	6.803
-4.0	-2.27684	2.00436	13.313	10.698	1.244	1.237	6.831
-3.8	-2.07813	1.99839	12.789	10.194	1.254	1.246	6.847
-3.6	-1.87956	1.99182	12.856	10.215	1.259	1.249	6.843
-3.4	-1.68131	1.98381	13.629	10.857	1.255	1.243	6.812
-3.2	-1.48363	1.97325	15.282	12.261	1.246	1.229	6.758
-3.0	-1.28685	1.95870	18.016	14.581	1.236	1.212	6.685
-2.8	-1.09136	1.93846	21.972	17.909	1.227	1.194	6.601
-2.6	-.89761	1.91077	27.108	22.159	1.223	1.179	6.512
-2.4	-.70599	1.87425	33.032	26.951	1.226	1.167	6.417
-2.2	-.51671	1.82852	38.936	31.597	1.232	1.159	6.316
-2.0	-.32971	1.77460	43.770	35.300	1.240	1.153	6.207
-1.8	-.14459	1.71485	46.667	37.438	1.247	1.149	6.092
-1.6	.03931	1.65243	47.249	37.791	1.250	1.148	5.975
-1.4	.22273	1.59053	45.687	36.537	1.250	1.147	5.861
-1.2	.40638	1.53176	42.534	34.095	1.248	1.148	5.753
-1.0	.59081	1.47784	38.440	30.946	1.242	1.149	5.654
-.8	.77642	1.42966	34.010	27.511	1.236	1.151	5.567
-.6	.96339	1.38742	29.667	24.106	1.231	1.155	5.493
-.4	1.15178	1.35082	25.670	20.930	1.226	1.160	5.430
-.2	1.34153	1.31929	22.149	18.094	1.224	1.165	5.380
-.0	1.53249	1.29212	19.145	15.641	1.224	1.172	5.340
.2	1.72451	1.26860	16.647	13.574	1.226	1.180	5.310
.4	1.91744	1.24810	14.613	11.871	1.231	1.190	5.288
.6	2.11115	1.23016	12.987	10.495	1.237	1.201	5.274
.8	2.30562	1.21459	11.709	9.403	1.245	1.213	5.267
1.0	2.50095	1.20162	10.714	8.549	1.253	1.227	5.270
1.2	2.69748	1.19203	9.939	7.883	1.261	1.244	5.283
1.4	2.89582	1.18749	9.322	7.358	1.267	1.264	5.316
1.6	3.09701	1.19076	8.808	6.930	1.271	1.291	5.379
1.8	3.30266	1.20633	8.348	6.565	1.272	1.327	5.490
2.0	3.51499	1.24109		6.236		1.378	5.675

72

Table 1 Continued

T = 7300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.98390	2.44864	145.102	121.652	1.193	1.096	7.157
-6.6	-4.79910	2.36443	121.734	102.998	1.182	1.098	7.041
-6.4	-4.61222	2.29405	101.177	86.323	1.172	1.101	6.944
-6.2	-4.42338	2.23586	83.639	71.826	1.164	1.105	6.867
-6.0	-4.23275	2.18815	68.952	59.492	1.159	1.110	6.808
-5.8	-4.04053	2.14929	56.825	49.156	1.156	1.115	6.764
-5.6	-3.84694	2.11779	46.915	40.599	1.156	1.122	6.735
-5.4	-3.65219	2.09234	38.882	33.582	1.158	1.131	6.720
-5.2	-3.45647	2.07184	32.410	27.873	1.163	1.141	6.716
-5.0	-3.25994	2.05533	27.219	23.260	1.170	1.152	6.723
-4.8	-3.06276	2.04201	23.085	19.560	1.180	1.165	6.740
-4.6	-2.86507	2.03121	19.818	16.620	1.192	1.180	6.765
-4.4	-2.66697	2.02235	17.278	14.319	1.207	1.196	6.796
-4.2	-2.46857	2.01489	15.353	12.568	1.222	1.213	6.830
-4.0	-2.26999	2.00834	13.983	11.311	1.236	1.228	6.861
-3.8	-2.07132	2.00217	13.145	10.529	1.248	1.240	6.884
-3.6	-1.87271	1.99578	12.867	10.244	1.256	1.247	6.892
-3.4	-1.67432	1.98841	13.233	10.527	1.257	1.246	6.876
-3.2	-1.47636	1.97908	14.383	11.494	1.251	1.236	6.834
-3.0	-1.27913	1.96649	16.504	13.291	1.242	1.221	6.771
-2.8	-1.08300	1.94905	19.774	16.049	1.232	1.204	6.692
-2.6	-.88840	1.92499	24.256	19.783	1.226	1.187	6.605
-2.4	-.69575	1.89266	29.738	24.263	1.226	1.174	6.512
-2.2	-.50538	1.85115	35.625	28.949	1.231	1.164	6.413
-2.0	-.31736	1.80078	40.956	33.079	1.238	1.157	6.306
-1.8	-.13144	1.74334	44.754	35.929	1.246	1.153	6.193
-1.6	.05292	1.68169	46.389	37.085	1.251	1.150	6.076
-1.4	.23645	1.61911	45.793	36.553	1.253	1.149	5.959
-1.2	.41989	1.55852	43.355	34.650	1.251	1.149	5.846
-1.0	.60387	1.50208	39.703	31.839	1.247	1.150	5.742
-.8	.78886	1.45106	35.458	28.569	1.241	1.152	5.649
-.6	.97514	1.40593	31.132	25.199	1.235	1.155	5.567
-.4	1.16283	1.36662	27.039	21.973	1.231	1.159	5.499
-.2	1.35190	1.33266	23.366	19.040	1.227	1.164	5.442
-.0	1.54226	1.30341	20.191	16.467	1.226	1.171	5.397
.2	1.73376	1.27815	17.522	14.275	1.227	1.178	5.362
.4	1.92625	1.25625	15.328	12.451	1.231	1.187	5.336
.6	2.11962	1.23720	13.558	10.964	1.237	1.198	5.319
.8	2.31382	1.22079	12.156	9.773	1.244	1.210	5.311
1.0	2.50896	1.20719	11.057	8.834	1.252	1.224	5.312
1.2	2.70533	1.19716	10.198	8.098	1.259	1.241	5.326
1.4	2.90353	1.19223	9.514	7.517	1.266	1.262	5.358
1.6	3.10462	1.19520	8.949	7.048	1.270	1.288	5.422
1.8	3.31013	1.21044	8.449	6.651	1.270	1.325	5.533
2.0	3.52230	1.24486		6.301		1.376	5.719

Table 1 Continued

T = 7400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.96592	2.51766	159.258	132.460	1.202	1.096	7.307
-6.6	-4.78260	2.42276	134.878	113.238	1.191	1.098	7.174
-6.4	-4.59720	2.34271	112.827	95.583	1.180	1.100	7.063
-6.2	-4.40973	2.27604	93.635	79.946	1.171	1.104	6.972
-6.0	-4.22035	2.22106	77.356	66.447	1.164	1.108	6.900
-5.8	-4.02924	2.17607	63.789	55.013	1.160	1.113	6.845
-5.6	-3.83661	2.13948	52.623	45.467	1.157	1.119	6.806
-5.4	-3.64266	2.10985	43.521	37.591	1.158	1.126	6.781
-5.2	-3.44761	2.08593	36.157	31.144	1.161	1.135	6.769
-5.0	-3.25164	2.06666	30.233	25.914	1.167	1.146	6.769
-4.8	-3.05492	2.05114	25.495	21.698	1.175	1.158	6.779
-4.6	-2.85759	2.03858	21.733	18.327	1.186	1.172	6.799
-4.4	-2.65977	2.02836	18.775	15.664	1.199	1.187	6.826
-4.2	-2.46159	2.01988	16.496	13.601	1.213	1.203	6.857
-4.0	-2.26315	2.01263	14.811	12.062	1.228	1.219	6.890
-3.8	-2.06457	2.00608	13.669	11.011	1.241	1.233	6.918
-3.6	-1.86596	1.99965	13.075	10.446	1.252	1.243	6.934
-3.4	-1.66748	1.99266	13.078	10.409	1.256	1.246	6.931
-3.2	-1.46932	1.98422	13.789	10.992	1.254	1.241	6.904
-3.0	-1.27175	1.97319	15.372	12.328	1.247	1.229	6.851
-2.8	-1.07508	1.95810	18.015	14.559	1.237	1.213	6.779
-2.6	-.87974	1.93722	21.844	17.761	1.230	1.196	6.696
-2.4	-.68616	1.90878	26.788	21.835	1.227	1.181	6.605
-2.2	-.49473	1.87147	32.448	26.390	1.230	1.170	6.509
-2.0	-.30566	1.82497	38.030	30.757	1.236	1.161	6.404
-1.8	-.11884	1.77040	42.522	34.173	1.244	1.156	6.293
-1.6	.06614	1.71022	45.114	36.070	1.251	1.153	6.176
-1.4	.24994	1.64760	45.489	36.268	1.254	1.151	6.057
-1.2	.43330	1.58569	43.849	34.960	1.254	1.150	5.941
-1.0	.61694	1.52705	40.731	32.554	1.251	1.151	5.831
-.8	.80139	1.47334	36.766	29.508	1.246	1.152	5.732
-.6	.98702	1.42538	32.509	26.220	1.240	1.155	5.644
-.4	1.17401	1.38332	28.368	22.978	1.235	1.159	5.569
-.2	1.36240	1.34685	24.572	19.968	1.231	1.163	5.506
-.0	1.55214	1.31539	21.241	17.288	1.229	1.169	5.455
.2	1.74309	1.28827	18.405	14.977	1.229	1.177	5.416
.4	1.93512	1.26485	16.052	13.035	1.231	1.185	5.386
.6	2.12811	1.24460	14.139	11.437	1.236	1.195	5.366
.8	2.32202	1.22726	12.611	10.148	1.243	1.207	5.355
1.0	2.51693	1.21294	11.404	9.123	1.250	1.221	5.354
1.2	2.71313	1.20236	10.457	8.316	1.257	1.238	5.367
1.4	2.91120	1.19704	9.707	7.680	1.264	1.259	5.400
1.6	3.11214	1.19964	9.093	7.168	1.269	1.286	5.464
1.8	3.31751	1.21457	8.580	6.743	1.272	1.323	5.576
2.0	3.52952	1.24864		6.373		1.374	5.762

74

Table 1 Continued

T = 7500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.94736	2.59253	172.912	142.737	1.211	1.096	7.466
-6.6	-4.76545	2.48678	148.154	123.415	1.200	1.098	7.317
-6.4	-4.58149	2.39659	124.952	105.081	1.189	1.100	7.190
-6.2	-4.39544	2.32083	104.257	88.447	1.179	1.103	7.084
-6.0	-4.20737	2.25795	86.412	73.835	1.170	1.106	6.999
-5.8	-4.01744	2.20622	71.364	61.306	1.164	1.111	6.932
-5.6	-3.82583	2.16398	58.878	50.746	1.160	1.116	6.882
-5.4	-3.63277	2.12967	48.635	41.964	1.159	1.123	6.847
-5.2	-3.43847	2.10192	40.305	34.736	1.160	1.131	6.827
-5.0	-3.24312	2.07953	33.577	28.840	1.164	1.140	6.818
-4.8	-3.04690	2.06149	28.178	24.064	1.171	1.151	6.822
-4.6	-2.84998	2.04693	23.872	20.227	1.180	1.164	6.836
-4.4	-2.65249	2.03512	20.463	17.172	1.192	1.178	6.858
-4.2	-2.45457	2.02544	17.806	14.776	1.205	1.194	6.886
-4.0	-2.25631	2.01731	15.788	12.946	1.220	1.210	6.918
-3.8	-2.05785	2.01019	14.343	11.625	1.234	1.225	6.949
-3.6	-1.85929	2.00353	13.442	10.788	1.246	1.237	6.972
-3.4	-1.66078	1.99668	13.110	10.456	1.254	1.244	6.980
-3.2	-1.46248	1.98885	13.429	10.694	1.256	1.244	6.965
-3.0	-1.26464	1.97900	14.530	11.611	1.251	1.236	6.925
-2.8	-1.06754	1.96581	16.590	13.347	1.243	1.222	6.862
-2.6	-.87157	1.94765	19.772	16.015	1.235	1.205	6.784
-2.4	-.67717	1.92270	24.115	19.610	1.230	1.189	6.697
-2.2	-.48476	1.88938	29.377	23.886	1.230	1.176	6.602
-2.0	-.29465	1.84686	34.950	28.298	1.235	1.167	6.501
-1.8	-.10688	1.79559	39.915	32.112	1.243	1.160	6.391
-1.6	.07883	1.73748	43.336	34.657	1.250	1.156	6.276
-1.4	.26305	1.67546	44.662	35.578	1.255	1.153	6.156
-1.2	.44650	1.61280	43.884	34.914	1.257	1.152	6.037
-1.0	.62991	1.55236	41.402	32.988	1.255	1.152	5.923
-.8	.81391	1.49621	37.827	30.243	1.251	1.153	5.818
-.6	.99894	1.44553	33.742	27.103	1.245	1.156	5.724
-.4	1.18527	1.40074	29.614	23.897	1.239	1.159	5.642
-.2	1.37300	1.36171	25.742	20.848	1.235	1.163	5.574
-.0	1.56211	1.32798	22.281	18.088	1.232	1.169	5.517
.2	1.75250	1.29892	19.301	15.677	1.231	1.176	5.472
.4	1.94404	1.27387	16.802	13.629	1.233	1.184	5.438
.6	2.13663	1.25232	14.754	11.929	1.237	1.194	5.415
.8	2.33022	1.23396	13.102	10.546	1.242	1.205	5.401
1.0	2.52487	1.21888	11.790	9.439	1.249	1.219	5.399
1.2	2.72088	1.20771	10.754	8.561	1.256	1.236	5.411
1.4	2.91878	1.20190	9.932	7.866	1.263	1.257	5.443
1.6	3.11960	1.20414	9.265	7.308	1.268	1.285	5.508
1.8	3.32482	1.21871		6.848		1.322	5.621
2.0	3.53667	1.25244		6.453		1.374	5.809

Table 1 Continued

T = 7600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.92836	2.67286	185.363	151.952	1.220	1.097	7.633
-6.6	-4.74771	2.55636	161.035	133.142	1.210	1.098	7.469
-6.4	-4.56515	2.45576	137.199	114.514	1.198	1.100	7.326
-6.2	-4.38051	2.37043	115.295	97.122	1.187	1.102	7.205
-6.0	-4.19378	2.29905	95.993	81.530	1.177	1.105	7.106
-5.8	-4.00509	2.23998	79.471	67.953	1.169	1.109	7.026
-5.6	-3.81459	2.19152	65.630	56.378	1.164	1.114	6.965
-5.4	-3.62249	2.15202	54.189	46.667	1.161	1.120	6.920
-5.2	-3.42900	2.11998	44.834	38.624	1.161	1.127	6.890
-5.0	-3.23434	2.09409	37.247	32.022	1.163	1.135	6.873
-4.8	-3.03869	2.07320	31.134	26.652	1.168	1.145	6.869
-4.6	-2.84223	2.05637	26.235	22.314	1.176	1.157	6.877
-4.4	-2.64512	2.04275	22.341	18.841	1.186	1.170	6.893
-4.2	-2.44748	2.03165	19.279	16.094	1.198	1.185	6.918
-4.0	-2.24945	2.02246	16.915	13.960	1.212	1.201	6.947
-3.8	-2.05114	2.01461	15.160	12.365	1.226	1.217	6.979
-3.6	-1.85267	2.00753	13.964	11.266	1.239	1.230	7.006
-3.4	-1.65417	2.00062	13.326	10.662	1.250	1.240	7.022
-3.2	-1.45579	1.99314	13.294	10.593	1.255	1.244	7.019
-3.0	-1.25775	1.98417	13.975	11.146	1.254	1.240	6.993
-2.8	-1.06032	1.97250	15.525	12.444	1.248	1.229	6.941
-2.6	-.86383	1.95661	18.116	14.618	1.239	1.213	6.869
-2.4	-.66871	1.93475	21.854	17.723	1.233	1.197	6.785
-2.2	-.47540	1.90516	26.639	21.635	1.231	1.183	6.694
-2.0	-.28428	1.86660	32.026	25.948	1.234	1.172	6.595
-1.8	-.09552	1.81891	37.235	29.997	1.241	1.165	6.488
-1.6	.09102	1.76339	41.321	33.067	1.250	1.159	6.374
-1.4	.27578	1.70260	43.518	34.658	1.256	1.156	6.254
-1.2	.45945	1.63976	43.606	34.644	1.259	1.154	6.133
-1.0	.64276	1.57796	41.826	33.241	1.258	1.154	6.016
-.8	.82641	1.51966	38.717	30.851	1.255	1.155	5.905
-.6	1.01092	1.46641	34.878	27.906	1.250	1.157	5.806
-.4	1.19663	1.41894	30.815	24.772	1.244	1.159	5.718
-.2	1.38371	1.37734	26.895	21.711	1.239	1.163	5.643
-.0	1.57218	1.34127	23.328	18.886	1.235	1.168	5.581
.2	1.76199	1.31016	20.212	16.386	1.234	1.175	5.531
.4	1.95303	1.28341	17.573	14.238	1.234	1.183	5.492
.6	2.14520	1.26046	15.389	12.438	1.237	1.192	5.465
.8	2.33844	1.24100	13.616	10.962	1.242	1.204	5.449
1.0	2.53282	1.22505	12.199	9.771	1.249	1.218	5.445
1.2	2.72861	1.21322	11.074	8.823	1.255	1.235	5.456
1.4	2.92635	1.20694	10.178	8.068	1.262	1.256	5.488
1.6	3.12700	1.20874	9.454	7.465	1.266	1.283	5.552
1.8	3.33208	1.22294		6.968		1.321	5.666
2.0	3.54377	1.25631		6.546		1.373	5.855

Table 1 Continued

T = 7700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.90908	2.75787	196.012	159.736	1.227	1.098	7.807
-6.6	-4.72952	2.63111	173.103	142.121	1.218	1.099	7.629
-6.4	-4.54824	2.52009	149.311	123.695	1.207	1.100	7.471
-6.2	-4.36497	2.42485	126.575	105.854	1.196	1.102	7.335
-6.0	-4.17961	2.34447	106.015	89.457	1.185	1.104	7.221
-5.8	-3.99220	2.27751	88.101	74.913	1.176	1.108	7.127
-5.6	-3.80286	2.22227	72.888	62.348	1.169	1.112	7.054
-5.4	-3.61179	2.17705	60.202	51.701	1.164	1.117	6.998
-5.2	-3.41919	2.14026	49.769	42.811	1.163	1.124	6.958
-5.0	-3.22528	2.11047	41.261	35.471	1.163	1.131	6.933
-4.8	-3.03026	2.08640	34.375	29.469	1.166	1.140	6.922
-4.6	-2.83432	2.06699	28.842	24.597	1.173	1.151	6.922
-4.4	-2.63762	2.05131	24.420	20.678	1.181	1.164	6.932
-4.2	-2.44032	2.03860	20.921	17.553	1.192	1.177	6.952
-4.0	-2.24255	2.02817	18.191	15.099	1.205	1.193	6.979
-3.8	-2.04443	2.01941	16.112	13.222	1.219	1.208	7.008
-3.6	-1.84608	2.01175	14.621	11.863	1.232	1.223	7.038
-3.4	-1.64763	2.00459	13.689	10.999	1.244	1.235	7.061
-3.2	-1.44923	1.99724	13.336	10.647	1.253	1.242	7.067
-3.0	-1.25105	1.98885	13.641	10.870	1.255	1.242	7.053
-2.8	-1.05335	1.97835	14.735	11.776	1.251	1.235	7.013
-2.6	-.85644	1.96434	16.783	13.490	1.244	1.222	6.951
-2.4	-.66071	1.94513	19.929	16.110	1.237	1.206	6.872
-2.2	-.46660	1.91892	24.174	19.602	1.233	1.191	6.783
-2.0	-.27454	1.88417	29.244	23.689	1.235	1.178	6.686
-1.8	-.08479	1.84019	34.496	27.816	1.240	1.169	6.582
-1.6	.10263	1.78766	39.035	31.278	1.248	1.163	6.470
-1.4	.28805	1.72865	42.020	33.464	1.256	1.159	6.351
-1.2	.47207	1.66620	42.959	34.095	1.260	1.157	6.229
-1.0	.65542	1.60354	41.935	33.251	1.261	1.156	6.109
-.8	.83883	1.54343	39.370	31.271	1.259	1.156	5.994
-.6	1.02289	1.48782	35.848	28.576	1.254	1.158	5.889
-.4	1.20803	1.43776	31.918	25.558	1.249	1.160	5.795
-.2	1.39448	1.39359	27.993	22.518	1.243	1.163	5.713
-.0	1.58233	1.35514	24.350	19.653	1.239	1.168	5.646
.2	1.77155	1.32194	21.116	17.076	1.237	1.174	5.590
.4	1.96207	1.29339	18.343	14.836	1.236	1.182	5.547
.6	2.15379	1.26897	16.027	12.942	1.238	1.191	5.516
.8	2.34667	1.24832	14.133	11.376	1.242	1.202	5.496
1.0	2.54076	1.23145	12.608	10.103	1.248	1.215	5.490
1.2	2.73632	1.21890	11.393	9.082	1.254	1.232	5.499
1.4	2.93386	1.21204	10.425	8.269	1.261	1.253	5.531
1.6	3.13436	1.21342	9.642	7.617	1.266	1.281	5.595
1.8	3.33928	1.22724		7.085		1.319	5.709
2.0	3.55079	1.26023		6.638		1.371	5.898

Table 1 Continued

T = 7800

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
-6.8	-4.88971	2.84671	204.257	165.693	1.233	1.099	7.987
-6.6	-4.71099	2.71058	183.863	150.025	1.226	1.099	7.795
-6.4	-4.53085	2.58940	160.902	132.363	1.216	1.100	7.623
-6.2	-4.34888	2.48411	137.859	114.468	1.204	1.102	7.472
-6.0	-4.16486	2.39435	116.327	97.499	1.193	1.104	7.343
-5.8	-3.97875	2.31898	97.157	82.120	1.183	1.107	7.236
-5.6	-3.79063	2.25642	80.615	68.623	1.175	1.111	7.149
-5.4	-3.60065	2.20497	66.670	57.048	1.169	1.115	7.082
-5.2	-3.40900	2.16296	55.104	47.295	1.165	1.121	7.032
-5.0	-3.21591	2.12883	45.621	39.189	1.164	1.128	6.998
-4.8	-3.02158	2.10122	37.914	32.520	1.166	1.136	6.978
-4.6	-2.82621	2.07892	31.694	27.083	1.170	1.146	6.971
-4.4	-2.62999	2.06093	26.708	22.685	1.177	1.157	6.975
-4.2	-2.43307	2.04637	22.737	19.159	1.187	1.170	6.989
-4.0	-2.23559	2.03450	19.612	16.366	1.198	1.185	7.011
-3.8	-2.03770	2.02467	17.202	14.197	1.212	1.200	7.039
-3.6	-1.83951	2.01626	15.412	12.577	1.225	1.215	7.069
-3.4	-1.64114	2.00867	14.195	11.461	1.239	1.229	7.095
-3.2	-1.44275	2.00126	13.546	10.849	1.249	1.239	7.110
-3.0	-1.24449	1.99323	13.517	10.779	1.254	1.242	7.106
-2.8	-1.04660	1.98360	14.212	11.339	1.253	1.238	7.078
-2.6	-.84934	1.97110	15.782	12.647	1.248	1.228	7.026
-2.4	-.65309	1.95415	18.385	14.818	1.241	1.213	6.954
-2.2	-.45828	1.93095	22.101	17.883	1.236	1.198	6.869
-2.0	-.26535	1.89979	26.778	21.678	1.235	1.185	6.775
-1.8	-.07464	1.85955	31.935	25.771	1.239	1.174	6.674
-1.6	.11370	1.81031	36.767	29.500	1.246	1.167	6.564
-1.4	.29987	1.75357	40.395	32.200	1.255	1.162	6.446
-1.2	.48436	1.69206	42.155	33.444	1.260	1.159	6.324
-1.0	.66788	1.62903	41.899	33.174	1.263	1.158	6.202
-.8	.85116	1.56750	39.928	31.639	1.262	1.157	6.083
-.6	1.03486	1.50976	36.787	29.233	1.258	1.158	5.972
-.4	1.21948	1.45723	33.037	26.364	1.253	1.160	5.873
-.2	1.40533	1.41053	29.148	23.364	1.248	1.163	5.785
-.0	1.59257	1.36967	25.434	20.470	1.243	1.168	5.711
.2	1.78120	1.33430	22.089	17.821	1.240	1.173	5.651
.4	1.97119	1.30388	19.182	15.489	1.238	1.180	5.603
.6	2.16244	1.27789	16.729	13.497	1.239	1.189	5.567
.8	2.35493	1.25597	14.707	11.834	1.243	1.200	5.544
1.0	2.54870	1.23809	13.067	10.472	1.248	1.213	5.535
1.2	2.74401	1.22477	11.751	9.373	1.254	1.230	5.542
1.4	2.94136	1.21733	10.698	8.493	1.260	1.251	5.573
1.6	3.14167	1.21819	9.849	7.786	1.265	1.279	5.637
1.8	3.34642	1.23159		7.211		1.317	5.751
2.0	3.55776	1.26420		6.730		1.369	5.942

Table 1 Continued

T = 7900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.87044	2.93816	209.455	169.433	1.236	1.100	8.170
-6.6	-4.69230	2.79398	192.784	156.479	1.232	1.100	7.968
-6.4	-4.51310	2.66326	171.555	140.227	1.223	1.101	7.782
-6.2	-4.33231	2.54803	148.864	122.742	1.213	1.102	7.616
-6.0	-4.14959	2.44867	126.781	105.513	1.202	1.104	7.473
-5.8	-3.96478	2.36449	106.546	89.486	1.191	1.106	7.351
-5.6	-3.77790	2.29412	88.765	75.149	1.181	1.110	7.252
-5.4	-3.58906	2.23593	73.570	62.683	1.174	1.114	7.172
-5.2	-3.39843	2.18820	60.848	52.068	1.169	1.119	7.111
-5.0	-3.20622	2.14932	50.345	43.175	1.166	1.125	7.067
-4.8	-3.01264	2.11777	41.765	35.812	1.166	1.132	7.039
-4.6	-2.81790	2.09228	34.809	29.777	1.169	1.141	7.024
-4.4	-2.62219	2.07169	29.214	24.873	1.175	1.152	7.021
-4.2	-2.42570	2.05506	24.740	20.921	1.183	1.164	7.030
-4.0	-2.22856	2.04155	21.195	17.769	1.193	1.178	7.047
-3.8	-2.03093	2.03046	18.431	15.294	1.205	1.192	7.072
-3.6	-1.83292	2.02113	16.334	13.403	1.219	1.208	7.101
-3.4	-1.63468	2.01296	14.829	12.036	1.232	1.222	7.128
-3.2	-1.43634	2.00530	13.898	11.173	1.244	1.234	7.149
-3.0	-1.23805	1.99741	13.558	10.834	1.251	1.240	7.154
-2.8	-1.04002	1.98839	13.895	11.081	1.254	1.240	7.138
-2.6	-.84249	1.97709	15.034	12.020	1.251	1.233	7.096
-2.4	-.64581	1.96203	17.134	13.768	1.244	1.220	7.032
-2.2	-.45039	1.94147	20.315	16.401	1.239	1.205	6.953
-2.0	-.25666	1.91362	24.540	19.848	1.236	1.191	6.862
-1.8	-.06505	1.87704	29.471	23.793	1.239	1.180	6.763
-1.6	.12423	1.83125	34.439	27.660	1.245	1.171	6.656
-1.4	.31121	1.77719	38.548	30.770	1.253	1.165	6.541
-1.2	.49629	1.71715	41.062	32.582	1.260	1.162	6.419
-1.0	.68009	1.65427	41.581	32.893	1.264	1.160	6.295
-.8	.86335	1.59172	40.263	31.840	1.265	1.159	6.173
-.6	1.04678	1.53214	37.569	29.771	1.262	1.159	6.058
-.4	1.23095	1.47730	34.064	27.096	1.257	1.161	5.953
-.2	1.41625	1.42813	30.258	24.173	1.252	1.164	5.860
-.0	1.60288	1.38485	26.515	21.272	1.246	1.168	5.780
.2	1.79093	1.34725	23.068	18.567	1.242	1.173	5.713
.4	1.98037	1.31488	20.038	16.152	1.241	1.180	5.660
.6	2.17114	1.28725	17.453	14.066	1.241	1.188	5.620
.8	2.36322	1.26398	15.303	12.310	1.243	1.198	5.594
1.0	2.55666	1.24502	13.548	10.860	1.248	1.211	5.582
1.2	2.75169	1.23085	12.131	9.683	1.253	1.228	5.588
1.4	2.94880	1.22272	10.995	8.736	1.259	1.249	5.617
1.6	3.14894	1.22307	10.078	7.974	1.264	1.277	5.681
1.8	3.35351	1.23603		7.356		1.316	5.796
2.0	3.56467	1.26822		6.843		1.368	5.987

Table 1 Continued

T = 8000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.85148	3.03096	211.243	170.656	1.238	1.101	8.356
-6.6	-4.67359	2.88046	199.266	161.132	1.237	1.101	8.145
-6.4	-4.49512	2.74120	180.831	146.966	1.230	1.102	7.948
-6.2	-4.31535	2.61640	159.221	130.427	1.221	1.102	7.768
-6.0	-4.13383	2.50740	137.099	113.318	1.210	1.104	7.610
-5.8	-3.95030	2.41410	116.114	96.879	1.199	1.106	7.474
-5.6	-3.76468	2.33549	97.241	81.839	1.188	1.109	7.361
-5.4	-3.57702	2.27008	80.852	68.549	1.179	1.113	7.269
-5.2	-3.38745	2.21617	66.974	57.093	1.173	1.117	7.196
-5.0	-3.19618	2.17208	55.418	47.406	1.169	1.123	7.142
-4.8	-3.00341	2.13622	45.918	39.329	1.168	1.129	7.104
-4.6	-2.80936	2.10717	38.187	32.671	1.169	1.137	7.081
-4.4	-2.61422	2.08370	31.936	27.234	1.173	1.147	7.071
-4.2	-2.41819	2.06474	26.925	22.830	1.179	1.158	7.073
-4.0	-2.22143	2.04939	22.933	19.298	1.188	1.171	7.086
-3.8	-2.02410	2.03685	19.793	16.500	1.200	1.185	7.106
-3.6	-1.82632	2.02645	17.371	14.328	1.212	1.200	7.132
-3.4	-1.62824	2.01753	15.579	12.709	1.226	1.215	7.160
-3.2	-1.42998	2.00945	14.367	11.602	1.238	1.228	7.185
-3.0	-1.23170	2.00151	13.739	11.007	1.248	1.237	7.198
-2.8	-1.03358	1.99288	13.744	10.966	1.253	1.241	7.192
-2.6	-.83585	1.98248	14.490	11.565	1.253	1.237	7.162
-2.4	-.63882	1.96897	16.123	12.917	1.248	1.226	7.107
-2.2	-.44287	1.95069	18.781	15.120	1.242	1.213	7.034
-2.0	-.24844	1.92583	22.509	18.173	1.239	1.198	6.947
-1.8	-.05597	1.89274	27.103	21.870	1.239	1.186	6.851
-1.6	.13423	1.85048	32.025	25.738	1.244	1.176	6.747
-1.4	.32207	1.79940	36.461	29.128	1.252	1.169	6.633
-1.2	.50782	1.74129	39.581	31.426	1.259	1.164	6.513
-1.0	.69201	1.67906	40.860	32.298	1.265	1.162	6.388
-.8	.87537	1.61594	40.227	31.753	1.267	1.161	6.264
-.6	1.05863	1.55484	38.051	30.071	1.265	1.161	6.145
-.4	1.24242	1.49788	34.865	27.642	1.261	1.162	6.034
-.2	1.42721	1.44632	31.204	24.843	1.256	1.164	5.935
-.0	1.61327	1.40063	27.487	21.977	1.251	1.168	5.850
.2	1.80073	1.36078	23.982	19.246	1.246	1.173	5.778
.4	1.98962	1.32640	20.853	16.771	1.243	1.179	5.719
.6	2.17989	1.29703	18.156	14.608	1.243	1.187	5.675
.8	2.37154	1.27233	15.891	12.770	1.244	1.197	5.644
1.0	2.56462	1.25222	14.026	11.241	1.248	1.210	5.629
1.2	2.75936	1.23714	12.516	9.992	1.253	1.226	5.633
1.4	2.95625	1.22828	11.300	8.983	1.258	1.247	5.661
1.6	3.15616	1.22805	10.317	8.169	1.263	1.275	5.723
1.8	3.36056	1.24052		7.509		1.313	5.838
2.0	3.57153	1.27229		6.963		1.366	6.030

Table 1 Continued

T = 8100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.83301	3.12355	209.350	169.173	1.237	1.103	8.542
-6.6	-4.65507	2.96887	202.876	163.691	1.239	1.102	8.326
-6.4	-4.47704	2.82242	188.239	152.279	1.236	1.102	8.118
-6.2	-4.29811	2.68877	168.616	137.271	1.228	1.103	7.926
-6.0	-4.11767	2.57032	147.016	120.722	1.218	1.104	7.754
-5.8	-3.93536	2.46777	125.701	104.171	1.207	1.106	7.604
-5.6	-3.75098	2.38058	105.951	88.613	1.196	1.109	7.476
-5.4	-3.56452	2.30752	88.470	74.594	1.186	1.112	7.371
-5.2	-3.37606	2.24697	73.446	62.344	1.178	1.116	7.287
-5.0	-3.18578	2.19723	60.826	51.872	1.173	1.121	7.222
-4.8	-2.99388	2.15665	50.380	43.069	1.170	1.127	7.174
-4.6	-2.80057	2.12370	41.830	35.767	1.170	1.134	7.143
-4.4	-2.60605	2.09704	34.890	29.770	1.172	1.143	7.125
-4.2	-2.41054	2.07550	29.299	24.892	1.177	1.153	7.120
-4.0	-2.21420	2.05808	24.830	20.959	1.185	1.165	7.127
-3.8	-2.01720	2.04391	21.291	17.820	1.195	1.179	7.143
-3.6	-1.81968	2.03226	18.530	15.357	1.207	1.193	7.166
-3.4	-1.62179	2.02243	16.441	13.479	1.220	1.208	7.193
-3.2	-1.42365	2.01378	14.954	12.131	1.233	1.222	7.219
-3.0	-1.22541	2.00562	14.049	11.293	1.244	1.233	7.238
-2.8	-1.02725	1.99715	13.750	10.987	1.251	1.240	7.241
-2.6	-.82938	1.98740	14.141	11.279	1.254	1.239	7.222
-2.4	-.63207	1.97512	15.351	12.272	1.251	1.232	7.178
-2.2	-.43568	1.95877	17.528	14.071	1.246	1.219	7.113
-2.0	-.24063	1.93655	20.755	16.724	1.241	1.205	7.031
-1.8	-.04738	1.90670	24.951	20.116	1.240	1.192	6.938
-1.6	.14370	1.86791	29.711	23.885	1.244	1.181	6.835
-1.4	.33241	1.82001	34.324	27.443	1.251	1.173	6.724
-1.2	.51889	1.76422	37.941	30.146	1.259	1.168	6.605
-1.0	.70358	1.70311	39.910	31.542	1.265	1.164	6.481
-.8	.88715	1.63987	39.981	31.513	1.269	1.163	6.355
-.6	1.07034	1.57761	38.366	30.248	1.268	1.162	6.232
-.4	1.25383	1.51878	35.557	28.104	1.265	1.163	6.117
-.2	1.43817	1.46497	32.092	25.464	1.260	1.165	6.013
-.0	1.62369	1.41693	28.432	22.658	1.255	1.168	5.921
.2	1.81058	1.37481	24.898	19.919	1.250	1.173	5.843
.4	1.99892	1.33838	21.681	17.393	1.247	1.178	5.780
.6	2.18869	1.30723	18.873	15.158	1.245	1.186	5.731
.8	2.37990	1.28103	16.494	13.238	1.246	1.196	5.696
1.0	2.57260	1.25970	14.520	11.630	1.249	1.208	5.678
1.2	2.76703	1.24363	12.911	10.305	1.253	1.224	5.679
1.4	2.96365	1.23400	11.606	9.229	1.257	1.245	5.704
1.6	3.16336	1.23317	10.552	8.359	1.262	1.273	5.766
1.8	3.36756	1.24514		7.652		1.311	5.880
2.0	3.57834	1.27644		7.070		1.364	6.072

Table 1 Continued

T = 8200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.81522	3.21450	203.845	165.047	1.235	1.105	8.726
-6.6	-4.63689	3.05801	203.412	164.004	1.240	1.104	8.507
-6.4	-4.45902	2.90611	193.369	155.947	1.240	1.104	8.292
-6.2	-4.28069	2.76463	176.636	143.062	1.235	1.104	8.090
-6.0	-4.10119	2.63719	156.335	127.557	1.226	1.105	7.904
-5.8	-3.92000	2.52542	135.105	111.244	1.214	1.106	7.740
-5.6	-3.73683	2.42943	114.787	95.390	1.203	1.108	7.599
-5.4	-3.55157	2.34835	96.356	80.781	1.193	1.111	7.480
-5.2	-3.36426	2.28074	80.266	67.797	1.184	1.115	7.383
-5.0	-3.17502	2.22493	66.580	56.564	1.177	1.119	7.307
-4.8	-2.98403	2.17922	55.155	47.034	1.173	1.125	7.249
-4.6	-2.79151	2.14200	45.749	39.070	1.171	1.131	7.208
-4.4	-2.59767	2.11183	38.079	32.494	1.172	1.139	7.183
-4.2	-2.40272	2.08743	31.876	27.116	1.176	1.149	7.171
-4.0	-2.20684	2.06771	26.896	22.758	1.182	1.160	7.171
-3.8	-2.01022	2.05171	22.932	19.262	1.191	1.173	7.182
-3.6	-1.81299	2.03864	19.815	16.493	1.201	1.186	7.201
-3.4	-1.61532	2.02775	17.419	14.349	1.214	1.201	7.226
-3.2	-1.41733	2.01837	15.656	12.759	1.227	1.216	7.253
-3.0	-1.21918	2.00982	14.479	11.685	1.239	1.228	7.275
-2.8	-1.02101	2.00133	13.898	11.132	1.248	1.237	7.285
-2.6	-.82304	1.99200	13.970	11.146	1.253	1.240	7.277
-2.4	-.62552	1.98068	14.800	11.813	1.253	1.235	7.244
-2.2	-.42876	1.96594	16.529	13.238	1.249	1.225	7.187
-2.0	-.23318	1.94603	19.280	15.498	1.244	1.212	7.111
-1.8	-.03922	1.91915	23.039	18.553	1.242	1.198	7.021
-1.6	.15269	1.88373	27.543	22.143	1.244	1.186	6.922
-1.4	.34227	1.83910	32.198	25.761	1.250	1.177	6.814
-1.2	.52954	1.78596	36.185	28.771	1.258	1.171	6.697
-1.0	.71481	1.72641	38.752	30.634	1.265	1.167	6.573
-.8	.89869	1.66350	39.505	31.109	1.270	1.165	6.446
-.6	1.08191	1.60045	38.483	30.281	1.271	1.164	6.320
-.4	1.26519	1.54001	36.101	28.455	1.269	1.164	6.201
-.2	1.44913	1.48410	32.883	26.009	1.264	1.166	6.091
-.0	1.63415	1.43377	29.321	23.290	1.259	1.169	5.994
.2	1.82049	1.38938	25.784	20.565	1.254	1.173	5.911
.4	2.00828	1.35085	22.500	18.003	1.250	1.178	5.842
.6	2.19754	1.31786	19.592	15.705	1.248	1.185	5.788
.8	2.38829	1.29009	17.104	13.712	1.247	1.195	5.749
1.0	2.58060	1.26745	15.027	12.027	1.249	1.207	5.727
1.2	2.77470	1.25034	13.319	10.630	1.253	1.223	5.725
1.4	2.97105	1.23989	11.931	9.489	1.257	1.243	5.749
1.6	3.17051	1.23837	10.805	8.562	1.262	1.271	5.810
1.8	3.37451	1.24978		7.810		1.310	5.924
2.0	3.58509	1.28063		7.192		1.362	6.116

Table 1 Continued

T = 8300

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
-6.8	-4.79825	3.30228	194.930	158.349	1.231	1.107	8.907
-6.6	-4.61923	3.14656	200.677	161.908	1.239	1.105	8.689
-6.4	-4.44122	2.99124	195.896	157.698	1.242	1.105	8.469
-6.2	-4.26325	2.84329	182.849	147.514	1.240	1.105	8.257
-6.0	-4.08448	2.70760	164.639	133.574	1.233	1.106	8.060
-5.8	-3.90430	2.58686	144.120	117.901	1.222	1.107	7.883
-5.6	-3.72227	2.48199	123.578	102.039	1.211	1.108	7.727
-5.4	-3.53820	2.39260	104.422	87.010	1.200	1.111	7.595
-5.2	-3.35204	2.31755	87.350	73.393	1.190	1.114	7.485
-5.0	-3.16387	2.25526	72.635	61.443	1.182	1.118	7.397
-4.8	-2.97385	2.20402	60.234	51.197	1.177	1.123	7.329
-4.6	-2.78218	2.16217	49.941	42.567	1.173	1.129	7.278
-4.4	-2.58906	2.12816	41.507	35.392	1.173	1.136	7.244
-4.2	-2.39472	2.10062	34.656	29.496	1.175	1.145	7.225
-4.0	-2.19935	2.07835	29.134	24.694	1.180	1.155	7.219
-3.8	-2.00313	2.06032	24.721	20.821	1.187	1.167	7.224
-3.6	-1.80624	2.04564	21.226	17.733	1.197	1.180	7.239
-3.4	-1.60882	2.03353	18.507	15.312	1.209	1.195	7.261
-3.2	-1.41101	2.02327	16.458	13.476	1.221	1.209	7.286
-3.0	-1.21297	2.01417	15.019	12.171	1.234	1.223	7.311
-2.8	-1.01485	2.00550	14.168	11.382	1.245	1.233	7.326
-2.6	-.81682	1.99638	13.941	11.136	1.252	1.239	7.326
-2.4	-.61914	1.98577	14.423	11.502	1.254	1.238	7.304
-2.2	-.42209	1.97233	15.742	12.580	1.251	1.230	7.256
-2.0	-.22605	1.95442	18.030	14.461	1.247	1.218	7.188
-1.8	-.03147	1.93019	21.335	17.155	1.244	1.204	7.103
-1.6	.16121	1.89793	25.508	20.499	1.244	1.192	7.007
-1.4	.35165	1.85658	30.081	24.078	1.249	1.182	6.901
-1.2	.53972	1.80630	34.299	27.294	1.257	1.175	6.786
-1.0	.72565	1.74869	37.378	29.560	1.264	1.170	6.663
-.8	.90993	1.68655	38.771	30.518	1.270	1.167	6.536
-.6	1.09328	1.62311	38.372	30.141	1.273	1.166	6.409
-.4	1.27644	1.56137	36.464	28.666	1.272	1.166	6.285
-.2	1.46005	1.50355	33.547	26.451	1.268	1.167	6.171
-.0	1.64461	1.45103	30.133	23.856	1.263	1.169	6.068
.2	1.83043	1.40442	26.629	21.169	1.258	1.173	5.979
.4	2.01768	1.36378	23.305	18.592	1.253	1.178	5.905
.6	2.20642	1.32889	20.318	16.246	1.251	1.185	5.846
.8	2.39671	1.29950	17.732	14.189	1.250	1.194	5.803
1.0	2.58862	1.27551	15.554	12.434	1.251	1.206	5.777
1.2	2.78237	1.25731	13.752	10.970	1.254	1.221	5.772
1.4	2.97844	1.24596	12.283	9.766	1.258	1.242	5.795
1.6	3.17767	1.24375	11.085	8.785	1.262	1.270	5.854
1.8	3.38144	1.25460		7.986		1.308	5.967
2.0	3.59181	1.28492		7.331		1.360	6.159

Table 1 Continued

T = 8400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.78223	3.38559	183.143	149.439	1.226	1.109	9.083
-6.6	-4.60224	3.23318	194.732	157.462	1.237	1.107	8.868
-6.4	-4.42378	3.07670	195.619	157.392	1.243	1.106	8.647
-6.2	-4.24590	2.92396	186.977	150.418	1.243	1.106	8.428
-6.0	-4.06766	2.78104	171.573	138.568	1.238	1.106	8.221
-5.8	-3.88832	2.65182	152.446	123.974	1.230	1.107	8.031
-5.6	-3.70735	2.53815	132.135	108.425	1.219	1.109	7.862
-5.4	-3.52442	2.44029	112.526	93.191	1.207	1.111	7.716
-5.2	-3.33942	2.35748	94.638	79.070	1.197	1.113	7.593
-5.0	-3.15235	2.28832	78.956	66.471	1.188	1.117	7.493
-4.8	-2.96333	2.23117	65.578	55.537	1.181	1.121	7.413
-4.6	-2.77255	2.18431	54.392	46.241	1.176	1.127	7.353
-4.4	-2.58021	2.14613	45.168	38.461	1.174	1.134	7.310
-4.2	-2.38652	2.11516	37.638	32.029	1.175	1.142	7.283
-4.0	-2.19170	2.09009	31.545	26.764	1.179	1.151	7.270
-3.8	-1.99594	2.06980	26.651	22.497	1.185	1.162	7.269
-3.6	-1.79941	2.05333	22.761	19.073	1.193	1.175	7.279
-3.4	-1.60227	2.03983	19.707	16.368	1.204	1.188	7.297
-3.2	-1.40468	2.02854	17.365	14.281	1.216	1.203	7.320
-3.0	-1.20678	2.01875	15.661	12.745	1.229	1.217	7.345
-2.8	-1.00873	2.00973	14.553	11.731	1.241	1.229	7.365
-2.6	-.81070	2.00065	14.051	11.249	1.249	1.236	7.371
-2.4	-.61290	1.99053	14.224	11.347	1.254	1.239	7.359
-2.2	-.41561	1.97812	15.179	12.115	1.253	1.234	7.321
-2.0	-.21919	1.96189	17.049	13.650	1.249	1.223	7.260
-1.8	-.02406	1.94003	19.931	16.001	1.246	1.210	7.181
-1.6	.16933	1.91073	23.752	19.076	1.245	1.197	7.089
-1.4	.36058	1.87260	28.165	22.559	1.249	1.186	6.986
-1.2	.54947	1.82533	32.524	25.910	1.255	1.178	6.874
-1.0	.73610	1.76999	36.024	28.515	1.263	1.173	6.753
-.8	.92088	1.70902	38.013	29.928	1.270	1.169	6.625
-.6	1.10446	1.64560	38.228	30.005	1.274	1.167	6.496
-.4	1.28758	1.58286	36.820	28.898	1.274	1.167	6.370
-.2	1.47093	1.52335	34.242	26.934	1.271	1.168	6.251
-.0	1.65508	1.46876	31.003	24.475	1.267	1.170	6.144
.2	1.84041	1.41996	27.542	21.835	1.261	1.173	6.049
.4	2.02713	1.37720	24.182	19.245	1.257	1.178	5.969
.6	2.21536	1.34039	21.111	16.847	1.253	1.184	5.905
.8	2.40518	1.30931	18.418	14.718	1.251	1.193	5.857
1.0	2.59667	1.28391	16.130	12.886	1.252	1.204	5.828
1.2	2.79006	1.26452	14.226	11.345	1.254	1.220	5.820
1.4	2.98582	1.25224	12.662	10.071	1.257	1.240	5.840
1.6	3.18479	1.24927	11.386	9.028	1.261	1.267	5.897
1.8	3.38834	1.25949		8.178		1.305	6.009
2.0	3.59849	1.28931		7.481		1.358	6.202

Table 1 Continued

T = 8500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.76724	3.46326	169.147	138.720	1.219	1.112	9.253
-6.6	-4.58604	3.31657	185.793	150.777	1.232	1.110	9.044
-6.4	-4.40686	3.16129	192.363	154.926	1.242	1.108	8.824
-6.2	-4.22879	3.00567	188.691	151.553	1.245	1.107	8.601
-6.0	-4.05084	2.85684	176.845	142.289	1.243	1.107	8.386
-5.8	-3.87218	2.71989	159.753	129.241	1.236	1.108	8.184
-5.6	-3.69214	2.59770	140.251	114.368	1.226	1.109	8.002
-5.4	-3.51029	2.49134	120.511	99.191	1.215	1.111	7.843
-5.2	-3.32642	2.40054	102.011	84.733	1.204	1.113	7.707
-5.0	-3.14046	2.32418	85.469	71.584	1.194	1.116	7.594
-4.8	-2.95248	2.26075	71.163	60.012	1.186	1.120	7.503
-4.6	-2.76263	2.20852	59.062	50.070	1.180	1.125	7.432
-4.4	-2.57110	2.16583	49.047	41.682	1.177	1.131	7.380
-4.2	-2.37812	2.13112	40.810	34.702	1.176	1.139	7.344
-4.0	-2.18389	2.10299	34.121	28.961	1.178	1.148	7.324
-3.8	-1.98862	2.08022	28.728	24.285	1.183	1.158	7.317
-3.6	-1.79249	2.06176	24.415	20.513	1.190	1.170	7.321
-3.4	-1.59567	2.04670	21.011	17.510	1.200	1.183	7.335
-3.2	-1.39833	2.03424	18.369	15.163	1.211	1.197	7.356
-3.0	-1.20060	2.02361	16.394	13.395	1.224	1.211	7.379
-2.8	-1.00265	2.01409	15.028	12.160	1.236	1.224	7.401
-2.6	-.80464	2.00488	14.265	11.448	1.246	1.234	7.414
-2.4	-.60677	1.99505	14.144	11.295	1.252	1.238	7.410
-2.2	-.40931	1.98344	14.758	11.770	1.254	1.236	7.382
-2.0	-.21257	1.96861	16.233	12.972	1.251	1.228	7.330
-1.8	-.01695	1.94883	18.681	14.971	1.248	1.216	7.257
-1.6	.17708	1.92223	22.107	17.737	1.246	1.203	7.169
-1.4	.36909	1.88722	26.272	21.040	1.249	1.191	7.070
-1.2	.55880	1.84302	30.640	24.421	1.255	1.183	6.960
-1.0	.74618	1.79021	34.441	27.278	1.263	1.176	6.841
-.8	.93152	1.73080	36.949	29.094	1.270	1.172	6.714
-.6	1.11541	1.66777	37.758	29.615	1.275	1.169	6.584
-.4	1.29858	1.60439	36.891	28.899	1.277	1.169	6.455
-.2	1.48176	1.54343	34.702	27.225	1.275	1.169	6.333
-.0	1.66556	1.48691	31.692	24.945	1.270	1.171	6.220
.2	1.85042	1.43597	28.329	22.391	1.265	1.173	6.120
.4	2.03663	1.39110	24.972	19.816	1.260	1.178	6.035
.6	2.22435	1.35232	21.845	17.390	1.256	1.184	5.965
.8	2.41368	1.31950	19.068	15.208	1.254	1.192	5.912
1.0	2.60474	1.29262	16.683	13.311	1.253	1.203	5.879
1.2	2.79777	1.27201	14.684	11.702	1.255	1.218	5.868
1.4	2.99321	1.25875	13.033	10.365	1.257	1.238	5.884
1.6	3.19191	1.25496	11.683	9.265	1.261	1.265	5.940
1.8	3.39520	1.26454		8.366		1.303	6.051
2.0	3.60513	1.29377		7.628		1.355	6.243

Table 1 Continued

T = 8600

Log ρ	Log p	Z	C_p/R	C_V/R	γ	$γ_E$	a/a_a
-6.8	-4.75332	3.53447	153.823	126.831	1.213	1.116	9.417
-6.6	-4.57073	3.39559	174.540	142.251	1.227	1.112	9.216
-6.4	-4.39059	3.24384	186.368	150.450	1.239	1.110	8.999
-6.2	-4.21205	3.08744	187.947	150.903	1.245	1.109	8.775
-6.0	-4.03414	2.93429	180.234	144.649	1.246	1.109	8.553
-5.8	-3.85595	2.79059	165.868	133.597	1.242	1.109	8.342
-5.6	-3.67670	2.66038	147.715	119.786	1.233	1.110	8.148
-5.4	-3.49585	2.54563	128.293	104.956	1.222	1.111	7.975
-5.2	-3.31307	2.44670	109.413	90.352	1.211	1.113	7.826
-5.0	-3.12821	2.36288	92.159	76.768	1.200	1.116	7.701
-4.8	-2.94128	2.29282	76.991	64.619	1.191	1.120	7.598
-4.6	-2.75239	2.23488	64.024	54.058	1.184	1.124	7.516
-4.4	-2.56173	2.18734	53.160	45.065	1.180	1.129	7.454
-4.2	-2.36950	2.14858	44.198	37.530	1.178	1.136	7.410
-4.0	-2.17590	2.11712	36.882	31.297	1.178	1.144	7.381
-3.8	-1.98116	2.09164	30.959	26.193	1.182	1.154	7.367
-3.6	-1.78547	2.07100	26.205	22.057	1.188	1.165	7.366
-3.4	-1.58900	2.05421	22.425	18.743	1.196	1.177	7.375
-3.2	-1.39193	2.04040	19.470	16.130	1.207	1.191	7.392
-3.0	-1.19441	2.02880	17.216	14.123	1.219	1.205	7.415
-2.8	-.99659	2.01864	15.595	12.666	1.231	1.219	7.438
-2.6	-.79864	2.00914	14.577	11.732	1.242	1.230	7.454
-2.4	-.60074	1.99941	14.180	11.338	1.251	1.237	7.457
-2.2	-.40315	1.98838	14.476	11.541	1.254	1.238	7.439
-2.0	-.20615	1.97468	15.575	12.425	1.254	1.232	7.397
-1.8	-.01013	1.95668	17.601	14.076	1.250	1.222	7.332
-1.6	.18447	1.93251	20.603	16.506	1.248	1.209	7.248
-1.4	.37720	1.90042	24.450	19.568	1.249	1.197	7.152
-1.2	.56770	1.85929	28.706	22.882	1.255	1.187	7.046
-1.0	.75584	1.80919	32.677	25.892	1.262	1.180	6.928
-.8	.94180	1.75165	35.606	28.041	1.270	1.175	6.803
-.6	1.12609	1.68941	36.973	28.976	1.276	1.172	6.673
-.4	1.30940	1.62571	36.653	28.661	1.279	1.171	6.542
-.2	1.49247	1.56358	34.894	27.303	1.278	1.171	6.416
-.0	1.67598	1.50531	32.167	25.240	1.274	1.172	6.298
.2	1.86042	1.45234	28.955	22.806	1.270	1.174	6.193
.4	2.04615	1.40538	25.641	20.279	1.264	1.178	6.103
.6	2.23337	1.36463	22.490	17.850	1.260	1.184	6.028
.8	2.42222	1.33004	19.651	15.634	1.257	1.192	5.971
1.0	2.61284	1.30162	17.188	13.686	1.256	1.203	5.933
1.2	2.80548	1.27976	15.107	12.022	1.257	1.217	5.918
1.4	3.00058	1.26542	13.378	10.628	1.259	1.237	5.932
1.6	3.19900	1.26080	11.955	9.477	1.261	1.264	5.986
1.8	3.40205	1.26966		8.532		1.302	6.096
2.0	3.61174	1.29834		7.755		1.354	6.287

Table 1 Continued

T = 8700

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
-6.8	-4.74048	3.59874	138.025	114.342	1.207	1.120	9.575
-6.6	-4.55638	3.46932	161.536	132.280	1.221	1.115	9.382
-6.4	-4.37506	3.32327	177.931	144.122	1.235	1.112	9.171
-6.2	-4.19581	3.16826	184.664	148.437	1.244	1.111	8.948
-6.0	-4.01769	3.01257	181.578	145.515	1.248	1.110	8.722
-5.8	-3.83975	2.86337	170.510	136.881	1.246	1.110	8.503
-5.6	-3.66113	2.72585	154.316	124.534	1.239	1.110	8.298
-5.4	-3.48116	2.60298	135.705	110.362	1.230	1.112	8.113
-5.2	-3.29940	2.49592	116.770	95.842	1.218	1.113	7.951
-5.0	-3.11561	2.40444	98.950	81.967	1.207	1.116	7.812
-4.8	-2.92974	2.32746	82.999	69.325	1.197	1.119	7.697
-4.6	-2.74185	2.26346	69.183	58.179	1.189	1.123	7.604
-4.4	-2.55209	2.21075	57.504	48.597	1.183	1.128	7.532
-4.2	-2.36064	2.16764	47.798	40.506	1.180	1.134	7.479
-4.0	-2.16772	2.13257	39.825	33.768	1.179	1.142	7.442
-3.8	-1.97355	2.10413	33.345	28.225	1.181	1.150	7.421
-3.6	-1.77833	2.08110	28.125	23.710	1.186	1.161	7.413
-3.4	-1.58225	2.06240	23.957	20.072	1.194	1.172	7.417
-3.2	-1.38549	2.04710	20.671	17.181	1.203	1.186	7.430
-3.0	-1.18820	2.03437	18.133	14.932	1.214	1.199	7.450
-2.8	-.99054	2.02343	16.257	13.253	1.227	1.213	7.473
-2.6	-.79268	2.01349	14.993	12.106	1.239	1.226	7.493
-2.4	-.59479	2.00370	14.339	11.490	1.248	1.234	7.501
-2.2	-.39711	1.99304	14.348	11.445	1.254	1.238	7.492
-2.0	-.19991	1.98024	15.114	12.045	1.255	1.235	7.459
-1.8	-.00354	1.96374	16.757	13.379	1.253	1.226	7.402
-1.6	.19156	1.94172	19.364	15.488	1.250	1.215	7.325
-1.4	.38494	1.91234	22.869	18.293	1.250	1.202	7.232
-1.2	.57619	1.87419	26.958	21.496	1.254	1.192	7.128
-1.0	.76509	1.82689	31.019	24.596	1.261	1.184	7.014
-.8	.95171	1.77149	34.295	27.022	1.269	1.178	6.890
-.6	1.13647	1.71038	36.169	28.344	1.276	1.174	6.760
-.4	1.32000	1.64674	36.384	28.423	1.280	1.173	6.628
-.2	1.50305	1.58371	35.080	27.395	1.281	1.172	6.499
-.0	1.68633	1.52389	32.661	25.560	1.278	1.173	6.377
.2	1.87040	1.46900	29.614	23.260	1.273	1.175	6.267
.4	2.05567	1.42001	26.359	20.788	1.268	1.179	6.172
.6	2.24240	1.37729	23.191	18.358	1.263	1.185	6.092
.8	2.43077	1.34091	20.294	16.108	1.260	1.192	6.030
1.0	2.62095	1.31092	17.749	14.109	1.258	1.202	5.988
1.2	2.81320	1.28771	15.580	12.386	1.258	1.217	5.970
1.4	3.00797	1.27231	13.769	10.933	1.259	1.236	5.982
1.6	3.20608	1.26681	12.240	9.726	1.258	1.263	6.033
1.8	3.40887	1.27495		8.734		1.301	6.142
2.0	3.61831	1.30298	9.976	7.917	1.260	1.353	6.333

Table 1 Continued

T = 8800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.72867	3.65588	122.276	101.742	1.202	1.125	9.726
-6.6	-4.54302	3.53707	147.381	121.264	1.215	1.119	9.542
-6.4	-4.36036	3.39860	167.398	136.134	1.230	1.115	9.338
-6.2	-4.18017	3.24711	178.916	144.134	1.241	1.113	9.118
-6.0	-4.00159	3.09080	180.654	144.729	1.248	1.112	8.891
-5.8	-3.82368	2.93757	173.439	138.880	1.249	1.111	8.666
-5.6	-3.64549	2.79367	159.774	128.398	1.244	1.111	8.452
-5.4	-3.46626	2.66317	142.433	115.232	1.236	1.112	8.256
-5.2	-3.28545	2.54809	123.850	101.054	1.226	1.114	8.081
-5.0	-3.10270	2.44883	105.719	87.071	1.214	1.116	7.929
-4.8	-2.91789	2.36469	89.112	74.046	1.203	1.118	7.801
-4.6	-2.73101	2.29434	74.517	62.385	1.194	1.122	7.697
-4.4	-2.54217	2.23613	62.035	52.241	1.187	1.127	7.614
-4.2	-2.35154	2.18836	51.573	43.599	1.183	1.132	7.551
-4.0	-2.15935	2.14940	42.937	36.356	1.181	1.139	7.506
-3.8	-1.96579	2.11776	35.883	30.365	1.182	1.147	7.478
-3.6	-1.77108	2.09212	30.176	25.459	1.185	1.157	7.463
-3.4	-1.57542	2.07132	25.598	21.486	1.191	1.168	7.462
-3.2	-1.37899	2.05437	21.971	18.310	1.200	1.181	7.471
-3.0	-1.18196	2.04037	19.143	15.814	1.211	1.194	7.488
-2.8	-.98449	2.02851	17.006	13.913	1.222	1.208	7.509
-2.6	-.78674	2.01800	15.499	12.558	1.234	1.221	7.530
-2.4	-.58890	2.00800	14.601	11.732	1.245	1.231	7.542
-2.2	-.39117	1.99753	14.347	11.459	1.252	1.237	7.540
-2.0	-.19381	1.98541	14.814	11.804	1.255	1.237	7.516
-1.8	.00284	1.97016	16.111	12.848	1.254	1.230	7.467
-1.6	.19838	1.95003	18.344	14.657	1.252	1.219	7.397
-1.4	.39235	1.92315	21.514	17.199	1.251	1.207	7.309
-1.2	.58431	1.88788	25.395	20.258	1.254	1.196	7.208
-1.0	.77397	1.84345	29.477	23.396	1.260	1.187	7.097
-.8	.96129	1.79040	33.031	26.049	1.268	1.181	6.975
-.6	1.14657	1.73075	35.369	27.729	1.276	1.177	6.846
-.4	1.33040	1.66749	36.106	28.197	1.281	1.174	6.713
-.2	1.51350	1.60387	35.272	27.507	1.282	1.174	6.581
-.0	1.69662	1.54270	33.188	25.918	1.280	1.174	6.456
.2	1.88036	1.48603	30.330	23.764	1.276	1.176	6.341
.4	2.06521	1.43506	27.145	21.354	1.271	1.179	6.241
.6	2.25147	1.39037	23.964	18.927	1.266	1.184	6.156
.8	2.43937	1.35216	21.004	16.641	1.262	1.192	6.089
1.0	2.62910	1.32056	18.372	14.585	1.260	1.202	6.043
1.2	2.82094	1.29599	16.109	12.796	1.259	1.216	6.021
1.4	3.01536	1.27944	14.205	11.277	1.260	1.235	6.029
1.6	3.21315	1.27298		10.008		1.262	6.079
1.8	3.41566	1.28034		8.960		1.299	6.186
2.0	3.62486	1.30776	10.187	8.097	1.258	1.351	6.377

Table 1 Continued

T = 8900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.71785	3.70598	107.229	89.537	1.198	1.130	9.873
-6.6	-4.53065	3.59840	132.762	109.730	1.210	1.123	9.697
-6.4	-4.34655	3.46899	155.329	126.866	1.224	1.118	9.501
-6.2	-4.16523	3.32299	171.011	138.189	1.238	1.115	9.286
-6.0	-3.98596	3.16804	177.423	142.307	1.247	1.113	9.060
-5.8	-3.80784	3.01243	174.493	139.515	1.251	1.113	8.832
-5.6	-3.62989	2.86330	163.889	131.264	1.249	1.112	8.610
-5.4	-3.45126	2.72584	148.361	119.461	1.242	1.113	8.403
-5.2	-3.27128	2.60302	130.511	105.908	1.232	1.114	8.215
-5.0	-3.08951	2.49598	112.375	92.017	1.221	1.116	8.051
-4.8	-2.90573	2.40451	95.280	78.743	1.210	1.118	7.911
-4.6	-2.71986	2.32754	79.988	66.644	1.200	1.122	7.795
-4.4	-2.53197	2.26353	66.733	55.980	1.192	1.126	7.701
-4.2	-2.34221	2.21081	55.525	46.804	1.186	1.131	7.628
-4.0	-2.15076	2.16768	46.216	39.058	1.183	1.137	7.574
-3.8	-1.95785	2.13259	38.569	32.607	1.183	1.145	7.538
-3.6	-1.76369	2.10411	32.356	27.303	1.185	1.154	7.517
-3.4	-1.56848	2.08103	27.353	22.985	1.190	1.164	7.509
-3.2	-1.37241	2.06225	23.362	19.512	1.197	1.176	7.513
-3.0	-1.17567	2.04684	20.229	16.759	1.207	1.189	7.527
-2.8	-.97842	2.03393	17.828	14.634	1.218	1.203	7.546
-2.6	-.78082	2.02271	16.075	13.069	1.230	1.216	7.566
-2.4	-.58305	2.01235	14.939	12.036	1.241	1.228	7.582
-2.2	-.38531	2.00192	14.429	11.545	1.250	1.235	7.586
-2.0	-.18784	1.99028	14.608	11.643	1.255	1.237	7.570
-1.8	.00904	1.97606	15.575	12.406	1.255	1.233	7.530
-1.6	.20496	1.95758	17.436	13.910	1.254	1.224	7.467
-1.4	.39947	1.93295	20.238	16.162	1.252	1.212	7.384
-1.2	.59209	1.90041	23.845	19.014	1.254	1.201	7.288
-1.0	.78249	1.85884	27.840	22.104	1.259	1.191	7.179
-.8	.97052	1.80832	31.558	24.902	1.267	1.184	7.059
-.6	1.15639	1.75042	34.278	26.881	1.275	1.179	6.931
-.4	1.34058	1.68788	35.510	27.717	1.281	1.176	6.798
-.2	1.52382	1.62396	35.152	27.376	1.284	1.175	6.664
-.0	1.70684	1.56168	33.447	26.062	1.283	1.175	6.536
.2	1.89031	1.50336	30.829	24.090	1.280	1.177	6.417
.4	2.07476	1.45048	27.761	21.777	1.275	1.180	6.311
.6	2.26056	1.40384	24.611	19.383	1.270	1.184	6.221
.8	2.44799	1.36379	21.617	17.086	1.265	1.191	6.149
1.0	2.63727	1.33054	18.922	14.992	1.262	1.201	6.098
1.2	2.82870	1.30452	16.583	13.152	1.261	1.214	6.072
1.4	3.02274	1.28677	14.599	11.578	1.261	1.233	6.077
1.6	3.22023	1.27934		10.255		1.260	6.124
1.8	3.42245	1.28591		9.158		1.297	6.230
2.0	3.63138	1.31261	10.376	8.252	1.257	1.349	6.419

Table 1 Continued

T = 9000

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
-6.8	-4.70794	3.74938	93.384	78.138	1.195	1.137	10.014
-6.6	-4.51923	3.65318	118.359	98.214	1.205	1.127	9.845
-6.4	-4.33365	3.53388	142.386	116.824	1.219	1.121	9.657
-6.2	-4.15105	3.39507	161.417	130.928	1.233	1.118	9.450
-6.0	-3.97090	3.24345	172.241	138.419	1.244	1.115	9.227
-5.8	-3.79234	3.08720	173.690	138.843	1.251	1.114	8.997
-5.6	-3.61441	2.93420	166.626	133.130	1.252	1.114	8.769
-5.4	-3.43620	2.79062	153.408	123.025	1.247	1.114	8.553
-5.2	-3.25694	2.66049	136.726	110.388	1.239	1.115	8.354
-5.0	-3.07608	2.54580	118.875	96.806	1.228	1.116	8.178
-4.8	-2.89329	2.44690	101.512	83.426	1.217	1.118	8.025
-4.6	-2.70842	2.36309	85.603	70.975	1.206	1.121	7.897
-4.4	-2.52150	2.29301	71.633	59.835	1.197	1.125	7.792
-4.2	-2.33262	2.23504	59.687	50.143	1.190	1.130	7.709
-4.0	-2.14196	2.18747	49.680	41.892	1.186	1.135	7.646
-3.8	-1.94973	2.14867	41.424	34.980	1.184	1.142	7.601
-3.6	-1.75615	2.11714	34.681	29.262	1.185	1.151	7.572
-3.4	-1.56143	2.09157	29.230	24.585	1.189	1.161	7.558
-3.2	-1.36577	2.07080	24.862	20.802	1.195	1.172	7.557
-3.0	-1.16934	2.05382	21.408	17.784	1.204	1.184	7.566
-2.8	-.97233	2.03972	18.732	15.425	1.214	1.198	7.583
-2.6	-.77491	2.02767	16.735	13.650	1.226	1.211	7.602
-2.4	-.57724	2.01681	15.365	12.416	1.238	1.224	7.621
-2.2	-.37952	2.00626	14.613	11.716	1.247	1.233	7.629
-2.0	-.18198	1.99492	14.522	11.583	1.254	1.237	7.621
-1.8	.01509	1.98151	15.182	12.086	1.256	1.235	7.590
-1.6	.21133	1.96442	16.697	13.301	1.255	1.228	7.535
-1.4	.40630	1.94181	19.134	15.264	1.253	1.217	7.458
-1.2	.59954	1.91181	22.438	17.886	1.255	1.206	7.365
-1.0	.79064	1.87303	26.288	20.879	1.259	1.195	7.259
-.8	.97939	1.82513	30.091	23.761	1.266	1.188	7.142
-.6	1.16587	1.76920	33.126	25.990	1.275	1.182	7.015
-.4	1.35050	1.70769	34.819	27.170	1.282	1.179	6.883
-.2	1.53394	1.64378	34.938	27.180	1.285	1.177	6.748
-.0	1.71693	1.58064	33.631	26.154	1.286	1.177	6.616
.2	1.90018	1.52085	31.287	24.384	1.283	1.178	6.493
.4	2.08428	1.46617	28.366	22.188	1.278	1.181	6.382
.6	2.26966	1.41763	25.263	19.841	1.273	1.185	6.287
.8	2.45663	1.37574	22.254	17.543	1.269	1.191	6.211
1.0	2.64546	1.34081	19.505	15.418	1.265	1.201	6.156
1.2	2.83647	1.31334	17.091	13.531	1.263	1.214	6.125
1.4	3.03015	1.29435	15.031	11.905	1.263	1.232	6.127
1.6	3.22729	1.28588		10.530		1.259	6.172
1.8	3.42922	1.29158		9.383		1.296	6.275
2.0	3.63788	1.31760	10.604	8.434	1.257	1.347	6.464

Table 1 Continued

T = 9100

Log ρ	Log p	Z	C_p/R	C_V/R	γ	$γ_E$	a/a_a
-6.8	-4.69885	3.78661	80.866	67.692	1.195	1.144	10.153
-6.6	-4.50872	3.70153	104.518	87.001	1.201	1.133	9.989
-6.4	-4.32166	3.59294	128.979	106.284	1.214	1.125	9.809
-6.2	-4.13769	3.46270	150.413	122.495	1.228	1.121	9.609
-6.0	-3.95646	3.31620	165.1C6	133.050	1.241	1.118	9.391
-5.8	-3.77726	3.16113	170.851	136.697	1.250	1.116	9.162
-5.6	-3.59915	3.00574	167.658	133.766	1.253	1.115	8.930
-5.4	-3.42118	2.85710	157.218	125.680	1.251	1.115	8.706
-5.2	-3.24249	2.72027	142.179	114.272	1.244	1.115	8.497
-5.0	-3.06244	2.59816	125.002	101.250	1.235	1.117	8.309
-4.8	-2.88059	2.49183	107.608	87.946	1.224	1.119	8.144
-4.6	-2.69671	2.40101	91.246	75.260	1.212	1.121	8.003
-4.4	-2.51075	2.32463	76.626	63.717	1.203	1.124	7.887
-4.2	-2.32278	2.26113	63.984	53.551	1.195	1.129	7.793
-4.0	-2.13294	2.20884	53.292	44.812	1.189	1.134	7.720
-3.8	-1.94143	2.16607	44.411	37.438	1.186	1.140	7.667
-3.6	-1.74847	2.13126	37.129	31.305	1.186	1.148	7.631
-3.4	-1.55427	2.10300	31.215	26.262	1.189	1.157	7.611
-3.2	-1.35903	2.08006	26.457	22.164	1.194	1.168	7.604
-3.0	-1.16295	2.06136	22.676	18.874	1.201	1.180	7.608
-2.8	-.96621	2.04594	19.713	16.278	1.211	1.193	7.621
-2.6	-.76899	2.03291	17.468	14.292	1.222	1.207	7.640
-2.4	-.57144	2.02144	15.864	12.859	1.234	1.219	7.659
-2.2	-.37378	2.01062	14.883	11.960	1.244	1.230	7.671
-2.0	-.17620	1.99943	14.543	11.614	1.252	1.236	7.669
-1.8	.02101	1.98663	14.918	11.876	1.256	1.237	7.647
-1.6	.21752	1.97071	16.111	12.823	1.256	1.231	7.599
-1.4	.41290	1.94988	18.2C8	14.506	1.255	1.222	7.529
-1.2	.60670	1.92222	21.193	16.887	1.255	1.210	7.441
-1.0	.79847	1.88615	24.849	19.743	1.259	1.200	7.338
-.8	.98793	1.84092	28.668	22.652	1.266	1.191	7.224
-.6	1.17506	1.78717	31.949	25.080	1.274	1.185	7.099
-.4	1.36018	1.72698	34.048	26.573	1.281	1.181	6.967
-.2	1.54389	1.66338	34.629	26.921	1.286	1.179	6.831
-.0	1.72692	1.59964	33.734	26.196	1.288	1.178	6.697
.2	1.91001	1.53856	31.693	24.642	1.286	1.179	6.570
.4	2.09380	1.48219	28.939	22.578	1.282	1.181	6.455
.6	2.27877	1.43179	25.903	20.291	1.277	1.186	6.355
.8	2.46530	1.38806	22.889	18.000	1.272	1.192	6.274
1.0	2.65369	1.35143	20.092	15.850	1.268	1.201	6.214
1.2	2.84428	1.32246	17.609	13.919	1.265	1.214	6.180
1.4	3.03757	1.30219	15.470	12.240	1.264	1.232	6.178
1.6	3.23437	1.29265		10.812		1.258	6.220
1.8	3.43600	1.29749		9.616		1.294	6.321
2.0	3.64437	1.32274	10.842	8.624	1.257	1.346	6.508

Table 1 Continued

T = 9200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.69050	3.81823	69.800	58.349	1.196	1.153	10.291
-6.6	-4.49906	3.74368	91.603	76.404	1.199	1.139	10.129
-6.4	-4.31055	3.64596	115.631	95.632	1.209	1.130	9.955
-6.2	-4.12516	3.52528	138.495	113.251	1.223	1.124	9.763
-6.0	-3.94274	3.38548	156.298	126.386	1.237	1.120	9.551
-5.8	-3.76270	3.23337	166.110	133.126	1.248	1.118	9.325
-5.6	-3.58420	3.07719	166.920	133.122	1.254	1.117	9.091
-5.4	-3.40628	2.92470	159.701	127.335	1.254	1.116	8.862
-5.2	-3.22801	2.78195	146.723	117.457	1.249	1.116	8.644
-5.0	-3.04865	2.65281	130.593	105.260	1.241	1.117	8.444
-4.8	-2.86767	2.53915	113.460	92.235	1.230	1.119	8.267
-4.6	-2.68475	2.44125	96.858	79.457	1.219	1.121	8.114
-4.4	-2.49975	2.35836	81.687	67.598	1.208	1.124	7.986
-4.2	-2.31269	2.28909	68.381	57.003	1.200	1.128	7.881
-4.0	-2.12370	2.23182	57.029	47.804	1.193	1.133	7.799
-3.8	-1.93294	2.18483	47.532	39.979	1.189	1.139	7.737
-3.6	-1.74063	2.14650	39.696	33.428	1.188	1.146	7.693
-3.4	-1.54697	2.11536	33.306	28.015	1.189	1.155	7.666
-3.2	-1.35220	2.09007	28.144	23.595	1.193	1.165	7.653
-3.0	-1.15649	2.06949	24.018	20.025	1.199	1.176	7.652
-2.8	-.96005	2.05260	20.765	17.189	1.208	1.189	7.661
-2.6	-.76305	2.03849	18.266	14.987	1.219	1.202	7.678
-2.4	-.56566	2.02626	16.429	13.354	1.230	1.215	7.696
-2.2	-.36807	2.01504	15.217	12.260	1.241	1.227	7.711
-2.0	-.17050	2.00384	14.637	11.707	1.250	1.235	7.715
-1.8	.02682	1.99148	14.738	11.736	1.256	1.237	7.699
-1.6	.22354	1.97651	15.617	12.420	1.257	1.234	7.660
-1.4	.41928	1.95722	17.367	13.817	1.257	1.226	7.597
-1.2	.61358	1.93168	20.015	15.926	1.257	1.215	7.515
-1.0	.80598	1.89818	23.407	18.590	1.259	1.204	7.416
-.8	.99613	1.85560	27.142	21.450	1.265	1.195	7.305
-.6	1.18392	1.80417	30.565	24.000	1.274	1.188	7.182
-.4	1.36957	1.74555	33.004	25.753	1.282	1.184	7.051
-.2	1.55361	1.68255	34.020	26.425	1.287	1.181	6.914
-.0	1.73675	1.61847	33.541	26.004	1.290	1.180	6.778
.2	1.91974	1.55631	31.830	24.693	1.289	1.180	6.648
.4	2.10326	1.49838	29.299	22.792	1.285	1.182	6.529
.6	2.28787	1.44619	26.370	20.595	1.280	1.186	6.424
.8	2.47397	1.40065	23.389	18.340	1.275	1.192	6.338
1.0	2.66192	1.36231	20.571	16.187	1.271	1.201	6.273
1.2	2.85209	1.33181	18.040	14.231	1.268	1.213	6.234
1.4	3.04498	1.31022	15.842	12.514	1.266	1.231	6.229
1.6	3.24145	1.29959		11.044		1.256	6.268
1.8	3.44274	1.30348		9.808		1.293	6.367
2.0	3.65083	1.32798	11.041	8.777	1.258	1.344	6.552

Table 1 Continued

T = 9300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.68278	3.84492	60.253	50.205	1.200	1.163	10.429
-6.6	-4.49016	3.78011	79.973	66.730	1.198	1.146	10.266
-6.4	-4.30028	3.69305	102.850	85.333	1.205	1.135	10.097
-6.2	-4.11347	3.58252	126.269	103.674	1.218	1.128	9.912
-6.0	-3.92976	3.45071	146.431	118.841	1.232	1.123	9.708
-5.8	-3.74872	3.30323	159.837	128.424	1.245	1.120	9.485
-5.6	-3.56964	3.14791	164.603	131.362	1.253	1.118	9.252
-5.4	-3.39157	2.99292	160.895	128.082	1.256	1.117	9.018
-5.2	-3.21356	2.84517	150.402	120.006	1.253	1.117	8.793
-5.0	-3.03477	2.70954	135.690	108.886	1.246	1.118	8.583
-4.8	-2.85457	2.58876	119.112	96.338	1.236	1.119	8.394
-4.6	-2.67255	2.48377	102.452	83.605	1.225	1.121	8.230
-4.4	-2.48850	2.39422	86.856	71.517	1.214	1.124	8.089
-4.2	-2.30237	2.31896	72.944	60.548	1.205	1.127	7.974
-4.0	-2.11424	2.25646	60.942	50.907	1.197	1.132	7.881
-3.8	-1.92425	2.20501	50.815	42.634	1.192	1.137	7.810
-3.6	-1.73262	2.16293	42.416	35.663	1.189	1.144	7.758
-3.4	-1.53955	2.12869	35.525	29.870	1.189	1.152	7.723
-3.2	-1.34526	2.10087	29.943	25.114	1.192	1.162	7.704
-3.0	-1.14996	2.07826	25.458	21.255	1.198	1.172	7.697
-2.8	-.95385	2.05976	21.905	18.169	1.206	1.184	7.703
-2.6	-.75709	2.04442	19.141	15.748	1.215	1.198	7.716
-2.4	-.55988	2.03133	17.071	13.917	1.227	1.211	7.733
-2.2	-.36240	2.01958	15.635	12.632	1.238	1.223	7.749
-2.0	-.16485	2.00822	14.828	11.884	1.248	1.232	7.758
-1.8	.03252	1.99612	14.682	11.702	1.255	1.237	7.749
-1.6	.22942	1.98191	15.277	12.145	1.258	1.236	7.718
-1.4	.42546	1.96394	16.711	13.283	1.258	1.229	7.663
-1.2	.62021	1.94031	19.037	15.134	1.258	1.219	7.585
-1.0	.81319	1.90919	22.166	17.600	1.259	1.209	7.491
-.8	1.00400	1.86922	25.776	20.383	1.265	1.199	7.383
-.6	1.19245	1.82019	29.298	23.017	1.273	1.192	7.263
-.4	1.37867	1.76334	32.026	24.998	1.281	1.186	7.133
-.2	1.56310	1.70122	33.447	25.974	1.288	1.183	6.996
-.0	1.74640	1.63707	33.387	25.854	1.291	1.182	6.859
.2	1.92935	1.57404	32.015	24.789	1.292	1.182	6.726
.4	2.11266	1.51469	29.715	23.057	1.289	1.184	6.603
.6	2.29693	1.46081	26.901	20.956	1.284	1.187	6.493
.8	2.48263	1.41348	23.956	18.737	1.279	1.192	6.402
1.0	2.67015	1.37344	21.119	16.580	1.274	1.201	6.333
1.2	2.85990	1.34139	18.536	14.593	1.270	1.213	6.290
1.4	3.05241	1.31846	16.274	12.835	1.268	1.231	6.281
1.6	3.24850	1.30667		11.318		1.256	6.316
1.8	3.44949	1.30963		10.035		1.292	6.414
2.0	3.65727	1.33330	11.283	8.963	1.259	1.343	6.598

Table 1 Continued

T = 9400

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
-6.8	-4.67561	3.86733	52.053	43.147	1.206	1.175	10.568
-6.6	-4.48194	3.81134	69.585	57.986	1.200	1.155	10.401
-6.4	-4.29079	3.73446	90.854	75.521	1.203	1.141	10.235
-6.2	-4.10260	3.63429	113.976	93.937	1.213	1.132	10.056
-6.0	-3.91753	3.51144	135.644	110.507	1.227	1.126	9.859
-5.8	-3.73538	3.37007	152.052	122.532	1.241	1.122	9.642
-5.6	-3.55554	3.21724	160.582	128.325	1.251	1.120	9.412
-5.4	-3.37713	3.06118	160.496	127.693	1.257	1.119	9.176
-5.2	-3.19920	2.90952	152.896	121.664	1.257	1.119	8.944
-5.0	-3.02084	2.76808	139.991	111.890	1.251	1.119	8.725
-4.8	-2.84133	2.64052	124.293	100.053	1.242	1.120	8.526
-4.6	-2.66015	2.52851	107.820	87.540	1.232	1.122	8.349
-4.4	-2.47702	2.43221	91.966	75.345	1.221	1.124	8.197
-4.2	-2.29181	2.35078	77.548	64.071	1.210	1.127	8.070
-4.0	-2.10455	2.28281	64.938	54.038	1.202	1.131	7.967
-3.8	-1.91537	2.22665	54.202	45.343	1.195	1.136	7.886
-3.6	-1.72444	2.18060	45.237	37.958	1.192	1.142	7.825
-3.4	-1.53199	2.14305	37.845	31.786	1.191	1.150	7.783
-3.2	-1.33822	2.11251	31.829	26.695	1.192	1.159	7.757
-3.0	-1.14335	2.08770	26.979	22.542	1.197	1.169	7.745
-2.8	-.94758	2.06746	23.112	19.201	1.204	1.181	7.746
-2.6	-.75110	2.05076	20.080	16.559	1.213	1.193	7.755
-2.4	-.55410	2.03667	17.775	14.531	1.223	1.206	7.771
-2.2	-.35675	2.02428	16.124	13.061	1.235	1.219	7.788
-2.0	-.15925	2.01263	15.099	12.129	1.245	1.229	7.799
-1.8	.03815	2.00064	14.721	11.751	1.253	1.236	7.796
-1.6	.23518	1.98701	15.059	11.977	1.257	1.237	7.773
-1.4	.43148	1.97016	16.208	12.876	1.259	1.232	7.725
-1.2	.62662	1.94824	18.232	14.488	1.258	1.223	7.653
-1.0	.82013	1.91934	21.103	16.754	1.260	1.213	7.564
-.8	1.01158	1.88190	24.569	19.441	1.264	1.203	7.459
-.6	1.20070	1.83534	28.130	22.129	1.271	1.195	7.342
-.4	1.38751	1.78045	31.112	24.308	1.280	1.189	7.213
-.2	1.57237	1.71946	32.916	25.570	1.287	1.185	7.077
-.0	1.75591	1.65550	33.270	25.752	1.292	1.183	6.939
.2	1.93888	1.59182	32.247	24.940	1.293	1.183	6.804
.4	2.12202	1.53121	30.188	23.384	1.291	1.184	6.677
.6	2.30598	1.47571	27.513	21.383	1.287	1.187	6.563
.8	2.49130	1.42665	24.597	19.200	1.281	1.193	6.467
1.0	2.67840	1.38490	21.740	17.035	1.276	1.201	6.393
1.2	2.86773	1.35129	19.100	15.015	1.272	1.212	6.346
1.4	3.05985	1.32698	16.763	13.208	1.269	1.230	6.333
1.6	3.25558	1.31401		11.638		1.255	6.366
1.8	3.45622	1.31595		10.302		1.290	6.460
2.0	3.66370	1.33880	11.565	9.181	1.260	1.341	6.643

Table I Continued

T = 9500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.66891	3.88604	45.117	37.135	1.215	1.188	10.709
-6.6	-4.47433	3.83791	60.494	50.260	1.204	1.164	10.537
-6.4	-4.28202	3.77051	79.896	66.440	1.203	1.148	10.370
-6.2	-4.09251	3.68059	102.087	84.390	1.210	1.137	10.197
-6.0	-3.90608	3.56729	124.408	101.751	1.223	1.130	10.006
-5.8	-3.72272	3.43326	143.145	115.747	1.237	1.125	9.796
-5.6	-3.54196	3.28446	155.091	124.176	1.249	1.122	9.569
-5.4	-3.36304	3.12884	158.623	126.232	1.257	1.121	9.333
-5.2	-3.18501	2.97447	154.149	122.450	1.259	1.120	9.097
-5.0	-3.00694	2.82804	143.459	114.267	1.255	1.120	8.870
-4.8	-2.82800	2.69416	128.988	103.365	1.248	1.121	8.660
-4.6	-2.64759	2.57531	112.950	91.253	1.238	1.122	8.472
-4.4	-2.46533	2.47224	97.012	79.079	1.227	1.124	8.309
-4.2	-2.28103	2.38450	82.199	67.591	1.216	1.127	8.171
-4.0	-2.09465	2.31087	69.038	57.208	1.207	1.131	8.056
-3.8	-1.90628	2.24978	57.707	48.115	1.199	1.135	7.966
-3.6	-1.71609	2.19953	48.172	40.327	1.195	1.141	7.896
-3.4	-1.52428	2.15846	40.277	33.778	1.192	1.148	7.846
-3.2	-1.33106	2.12502	33.814	28.345	1.193	1.156	7.813
-3.0	-1.13665	2.09784	28.582	23.893	1.196	1.166	7.795
-2.8	-.94126	2.07570	24.392	20.291	1.202	1.177	7.791
-2.6	-.74508	2.05753	21.085	17.423	1.210	1.189	7.796
-2.4	-.54830	2.04233	18.539	15.192	1.220	1.202	7.810
-2.2	-.35110	2.02917	16.668	13.536	1.231	1.215	7.826
-2.0	-.15369	2.01711	15.427	12.421	1.242	1.226	7.839
-1.8	.04371	2.00510	14.826	11.853	1.251	1.234	7.841
-1.6	.24084	1.99189	14.915	11.867	1.257	1.237	7.825
-1.4	.43736	1.97596	15.778	12.530	1.259	1.235	7.785
-1.2	.63284	1.95554	17.499	13.893	1.260	1.227	7.720
-1.0	.82684	1.92869	20.085	15.933	1.261	1.217	7.636
-.8	1.01889	1.89369	23.349	18.476	1.264	1.207	7.534
-.6	1.20866	1.84961	26.868	21.153	1.270	1.198	7.419
-.4	1.39608	1.79683	30.028	23.473	1.279	1.192	7.293
-.2	1.58143	1.73721	32.165	24.987	1.287	1.187	7.159
-.0	1.76525	1.67369	32.910	25.460	1.293	1.185	7.019
.2	1.94829	1.60959	32.254	24.914	1.295	1.184	6.881
.4	2.13132	1.54789	30.472	23.558	1.293	1.185	6.751
.6	2.31502	1.49088	27.967	21.683	1.290	1.188	6.634
.8	2.49997	1.44011	25.131	19.564	1.285	1.193	6.533
1.0	2.68667	1.39666	22.274	17.413	1.279	1.201	6.454
1.2	2.87558	1.36145	19.600	15.377	1.275	1.212	6.403
1.4	3.06729	1.33571	17.204	13.534	1.271	1.229	6.386
1.6	3.26266	1.32153		11.920		1.254	6.415
1.8	3.46296	1.32245		10.539		1.289	6.507
2.0	3.67011	1.34441	11.822	9.376	1.261	1.339	6.687

Table 1 Continued

T = 9600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.66263	3.90165	39.307	32.070	1.226	1.203	10.854
-6.6	-4.46724	3.86042	52.665	43.551	1.209	1.175	10.673
-6.4	-4.27390	3.80170	70.080	58.227	1.204	1.156	10.504
-6.2	-4.08314	3.72163	90.937	75.307	1.208	1.143	10.333
-6.0	-3.89538	3.61818	113.162	92.898	1.218	1.134	10.149
-5.8	-3.71075	3.49244	133.525	108.337	1.233	1.128	9.946
-5.6	-3.52895	3.34906	148.353	119.105	1.246	1.125	9.724
-5.4	-3.34935	3.19536	155.378	123.782	1.255	1.122	9.489
-5.2	-3.17106	3.03958	154.183	122.382	1.260	1.121	9.250
-5.0	-2.99311	2.88912	146.025	115.999	1.259	1.121	9.017
-4.8	-2.81462	2.74949	133.115	106.254	1.253	1.122	8.798
-4.6	-2.63490	2.62408	117.810	94.731	1.244	1.123	8.599
-4.4	-2.45346	2.51430	101.971	82.711	1.233	1.124	8.424
-4.2	-2.27003	2.42014	86.874	71.095	1.222	1.127	8.274
-4.0	-2.08453	2.34068	73.223	60.421	1.212	1.130	8.149
-3.8	-1.89700	2.27444	61.329	50.954	1.204	1.135	8.048
-3.6	-1.70757	2.21977	51.232	42.777	1.198	1.140	7.970
-3.4	-1.51642	2.17497	42.820	35.849	1.194	1.146	7.911
-3.2	-1.32378	2.13844	35.901	30.069	1.194	1.154	7.871
-3.0	-1.12985	2.10873	30.275	25.312	1.196	1.163	7.847
-2.8	-.93486	2.08455	25.752	21.441	1.201	1.174	7.838
-2.6	-.73901	2.06476	22.162	18.340	1.208	1.186	7.839
-2.4	-.54248	2.04832	19.364	15.904	1.218	1.198	7.849
-2.2	-.34546	2.03429	17.268	14.060	1.228	1.211	7.864
-2.0	-.14816	2.02170	15.816	12.764	1.239	1.223	7.879
-1.8	.04922	2.00953	14.995	12.006	1.249	1.232	7.885
-1.6	.24641	1.99657	14.840	11.816	1.256	1.237	7.875
-1.4	.44310	1.98139	15.429	12.247	1.260	1.236	7.842
-1.2	.63888	1.96227	16.845	13.359	1.261	1.230	7.785
-1.0	.83332	1.93726	19.121	15.155	1.262	1.221	7.706
-.8	1.02592	1.90456	22.143	17.512	1.264	1.211	7.609
-.6	1.21632	1.86293	25.558	20.119	1.270	1.202	7.497
-.4	1.40437	1.81235	28.794	22.517	1.279	1.195	7.374
-.2	1.59023	1.75429	31.208	24.239	1.288	1.190	7.240
-.0	1.77439	1.69147	32.320	24.980	1.294	1.187	7.101
.2	1.95756	1.62718	32.034	24.700	1.297	1.186	6.961
.4	2.14052	1.56457	30.546	23.562	1.296	1.187	6.828
.6	2.32400	1.50617	28.242	21.839	1.293	1.189	6.706
.8	2.50863	1.45379	25.522	19.807	1.289	1.194	6.602
1.0	2.69493	1.40866	22.702	17.696	1.283	1.202	6.518
1.2	2.88344	1.37186	20.017	15.663	1.278	1.213	6.463
1.4	3.07474	1.34469	17.587	13.803	1.274	1.229	6.442
1.6	3.26973	1.32926		12.160		1.253	6.467
1.8	3.46969	1.32912		10.745		1.289	6.557
2.0	3.67651	1.35017	12.063	9.548	1.263	1.338	6.735

Table 1 Continued

T = 9700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.65668	3.91463	34.456	27.809	1.239	1.219	11.003
-6.6	-4.46061	3.87941	45.938	37.751	1.217	1.188	10.812
-6.4	-4.26635	3.82848	61.374	50.856	1.207	1.165	10.637
-6.2	-4.07445	3.75769	80.573	66.775	1.207	1.149	10.467
-6.0	-3.88541	3.66406	102.121	84.092	1.214	1.139	10.287
-5.8	-3.69948	3.54726	123.297	100.419	1.228	1.132	10.091
-5.6	-3.51656	3.41050	140.480	113.119	1.242	1.127	9.875
-5.4	-3.33614	3.26015	150.729	120.276	1.253	1.125	9.643
-5.2	-3.15741	3.10430	152.850	121.307	1.260	1.123	9.403
-5.0	-2.97943	2.95086	147.475	116.917	1.261	1.122	9.165
-4.8	-2.80125	2.80622	136.463	108.551	1.257	1.122	8.938
-4.6	-2.62211	2.67462	122.177	97.815	1.249	1.123	8.730
-4.4	-2.44143	2.55826	106.677	86.114	1.239	1.125	8.543
-4.2	-2.25885	2.45766	91.448	74.483	1.228	1.127	8.382
-4.0	-2.07422	2.37222	77.409	63.592	1.217	1.130	8.246
-3.8	-1.88752	2.30065	65.008	53.802	1.208	1.134	8.135
-3.6	-1.69886	2.24136	54.373	45.260	1.201	1.139	8.047
-3.4	-1.50841	2.19262	45.446	37.966	1.197	1.145	7.980
-3.2	-1.31637	2.15281	38.069	31.845	1.195	1.152	7.932
-3.0	-1.12296	2.12040	32.043	26.779	1.197	1.161	7.901
-2.8	-.92839	2.09402	27.178	22.639	1.200	1.171	7.886
-2.6	-.73288	2.07248	23.293	19.302	1.207	1.182	7.883
-2.4	-.53663	2.05469	20.249	16.660	1.215	1.195	7.891
-2.2	-.33982	2.03967	17.929	14.630	1.225	1.207	7.903
-2.0	-.14264	2.02643	16.269	13.159	1.236	1.220	7.917
-1.8	.05468	2.01397	15.240	12.227	1.246	1.230	7.926
-1.6	.25190	2.00112	14.865	11.849	1.255	1.236	7.922
-1.4	.44872	1.98652	15.205	12.074	1.259	1.237	7.896
-1.2	.64476	1.96850	16.348	12.959	1.261	1.233	7.847
-1.0	.83958	1.94516	18.341	14.530	1.262	1.225	7.773
-.8	1.03270	1.91458	21.130	16.705	1.265	1.215	7.681
-.6	1.22370	1.87533	24.422	19.232	1.270	1.206	7.573
-.4	1.41237	1.82701	27.702	21.686	1.277	1.198	7.451
-.2	1.59877	1.77068	30.348	23.588	1.287	1.193	7.319
-.0	1.78331	1.70878	31.813	24.589	1.294	1.189	7.180
.2	1.96667	1.64453	31.892	24.571	1.298	1.188	7.040
.4	2.14961	1.58120	30.710	23.651	1.298	1.188	6.904
.6	2.33291	1.52155	28.612	22.079	1.296	1.191	6.778
.8	2.51724	1.46762	25.999	20.135	1.291	1.195	6.669
1.0	2.70318	1.42085	23.219	18.058	1.286	1.202	6.582
1.2	2.89129	1.38248	20.514	16.021	1.280	1.213	6.522
1.4	3.08221	1.35388	18.040	14.135	1.276	1.229	6.497
1.6	3.27681	1.33718		12.455		1.253	6.519
1.8	3.47640	1.33592		10.998		1.288	6.606
2.0	3.68290	1.35605	12.346	9.760	1.265	1.338	6.783

Table 1 Continued

T = 9800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.65104	3.92541	30.432	24.272	1.254	1.237	11.155
-6.6	-4.45437	3.89537	40.263	32.815	1.227	1.202	10.953
-6.4	-4.25931	3.85137	53.787	44.393	1.212	1.176	10.771
-6.2	-4.06638	3.78914	71.211	58.976	1.207	1.157	10.598
-6.0	-3.87613	3.70505	91.678	75.624	1.212	1.144	10.422
-5.8	-3.68891	3.59756	112.958	92.355	1.223	1.136	10.232
-5.6	-3.50480	3.46836	131.861	106.543	1.238	1.130	10.023
-5.4	-3.32343	3.32268	144.963	115.921	1.251	1.127	9.795
-5.2	-3.14412	3.16812	150.320	119.369	1.259	1.125	9.556
-5.0	-2.96594	3.01286	147.878	117.098	1.263	1.124	9.315
-4.8	-2.78795	2.86401	139.074	110.302	1.261	1.124	9.081
-4.6	-2.60928	2.72673	126.086	100.547	1.254	1.124	8.862
-4.4	-2.42928	2.60401	111.154	89.321	1.244	1.125	8.666
-4.2	-2.24750	2.49699	95.965	77.790	1.234	1.127	8.493
-4.0	-2.06372	2.40548	81.633	66.757	1.223	1.130	8.346
-3.8	-1.87786	2.32842	68.767	56.685	1.213	1.134	8.224
-3.6	-1.68999	2.26430	57.618	47.799	1.205	1.138	8.126
-3.4	-1.50024	2.21144	48.181	40.151	1.200	1.144	8.051
-3.2	-1.30883	2.16816	40.335	33.689	1.197	1.151	7.995
-3.0	-1.11596	2.13287	33.904	28.313	1.197	1.159	7.958
-2.8	-.92184	2.10415	28.680	23.898	1.200	1.168	7.936
-2.6	-.72671	2.08072	24.498	20.320	1.206	1.179	7.929
-2.4	-.53074	2.06146	21.191	17.467	1.213	1.191	7.932
-2.2	-.33416	2.04533	18.647	15.248	1.223	1.204	7.943
-2.0	-.13714	2.03134	16.778	13.604	1.233	1.216	7.956
-1.8	.06010	2.01848	15.549	12.500	1.244	1.227	7.967
-1.6	.25733	2.00561	14.963	11.944	1.253	1.235	7.967
-1.4	.45425	1.99143	15.070	11.972	1.259	1.238	7.948
-1.2	.65050	1.97434	15.950	12.641	1.262	1.235	7.906
-1.0	.84567	1.95248	17.672	13.991	1.263	1.228	7.838
-.8	1.03926	1.92389	20.208	15.974	1.265	1.218	7.750
-.6	1.23084	1.88695	23.349	18.391	1.270	1.209	7.646
-.4	1.42012	1.84092	26.636	20.860	1.277	1.201	7.528
-.2	1.60707	1.78647	29.452	22.910	1.286	1.195	7.397
-.0	1.79204	1.72570	31.239	24.145	1.294	1.191	7.259
.2	1.97564	1.66172	31.667	24.384	1.299	1.190	7.118
.4	2.15862	1.59787	30.801	23.690	1.300	1.190	6.980
.6	2.34178	1.53710	28.931	22.281	1.298	1.192	6.851
.8	2.52584	1.48171	26.448	20.435	1.294	1.195	6.737
1.0	2.71143	1.43335	23.718	18.402	1.289	1.202	6.645
1.2	2.89915	1.39338	21.007	16.370	1.283	1.213	6.580
1.4	3.08968	1.36331	18.490	14.463	1.278	1.229	6.552
1.6	3.28389	1.34530		12.748		1.252	6.571
1.8	3.48314	1.34295		11.250		1.287	6.654
2.0	3.68929	1.36210	12.631	9.970	1.267	1.336	6.828

Table 1 Continued

T = 9900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.64564	3.93437	27.095	21.318	1.271	1.257	11.313
-6.6	-4.44847	3.90877	35.460	28.625	1.239	1.217	11.097
-6.4	-4.25270	3.87085	47.225	38.759	1.218	1.187	10.906
-6.2	-4.05886	3.81641	62.841	51.942	1.210	1.165	10.730
-6.0	-3.86748	3.74141	81.939	67.645	1.211	1.150	10.555
-5.8	-3.67902	3.64330	102.859	84.305	1.220	1.140	10.370
-5.6	-3.49368	3.52237	122.741	99.530	1.233	1.134	10.167
-5.4	-3.31127	3.38252	138.240	110.838	1.247	1.129	9.944
-5.2	-3.13123	3.23056	146.637	116.600	1.258	1.127	9.707
-5.0	-2.95271	3.07468	147.223	116.529	1.263	1.125	9.464
-4.8	-2.77475	2.92256	140.858	111.468	1.264	1.125	9.225
-4.6	-2.59644	2.78020	129.497	102.882	1.259	1.125	8.998
-4.4	-2.41703	2.65143	115.359	92.292	1.250	1.126	8.791
-4.2	-2.23600	2.53809	100.373	80.989	1.239	1.128	8.608
-4.0	-2.05304	2.44045	85.860	69.894	1.228	1.130	8.450
-3.8	-1.86801	2.35775	72.604	59.598	1.218	1.133	8.317
-3.6	-1.68093	2.28864	60.963	50.396	1.210	1.138	8.209
-3.4	-1.49192	2.23146	51.021	42.403	1.203	1.143	8.124
-3.2	-1.30116	2.18451	42.708	35.603	1.200	1.149	8.061
-3.0	-1.10884	2.14618	35.851	29.914	1.198	1.157	8.017
-2.8	-.91521	2.11496	30.267	25.218	1.200	1.166	7.989
-2.6	-.72046	2.08952	25.771	21.392	1.205	1.176	7.976
-2.4	-.52482	2.06866	22.196	18.322	1.211	1.188	7.975
-2.2	-.32848	2.05131	19.420	15.912	1.220	1.200	7.983
-2.0	-.13164	2.03646	17.341	14.089	1.231	1.213	7.996
-1.8	.06550	2.02308	15.908	12.814	1.241	1.224	8.007
-1.6	.26270	2.01007	15.111	12.080	1.251	1.233	8.010
-1.4	.45969	1.99616	14.988	11.914	1.258	1.238	7.997
-1.2	.65612	1.97983	15.608	12.366	1.262	1.237	7.962
-1.0	.85158	1.95925	17.045	13.484	1.264	1.231	7.902
-.8	1.04560	1.93247	19.306	15.249	1.266	1.222	7.820
-.6	1.23772	1.89774	22.240	17.510	1.270	1.213	7.719
-.4	1.42760	1.85399	25.456	19.937	1.277	1.204	7.603
-.2	1.61513	1.80151	28.378	22.078	1.285	1.198	7.475
-.0	1.80055	1.74206	30.421	23.507	1.294	1.194	7.338
.2	1.98443	1.67856	31.184	23.988	1.300	1.192	7.196
.4	2.16750	1.61438	30.634	23.522	1.302	1.191	7.056
.6	2.35057	1.55266	29.014	22.297	1.301	1.193	6.924
.8	2.53439	1.49590	26.698	20.575	1.298	1.196	6.807
1.0	2.71966	1.44600	24.055	18.612	1.292	1.203	6.711
1.2	2.90700	1.40447	21.374	16.609	1.287	1.213	6.642
1.4	3.09713	1.37291	18.840	14.702	1.281	1.229	6.608
1.6	3.29097	1.35359		12.970		1.252	6.623
1.8	3.48985	1.35008		11.447		1.286	6.704
2.0	3.69566	1.36826	12.872	10.139	1.269	1.334	6.874

Table 1 Continued

T = 10,000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.64045	3.94182	24.353	18.890	1.289	1.277	11.472
-6.6	-4.44286	3.92001	31.452	25.109	1.253	1.234	11.245
-6.4	-4.24649	3.88740	41.604	33.906	1.227	1.200	11.043
-6.2	-4.05182	3.83995	55.430	45.666	1.214	1.175	10.861
-6.0	-3.85941	3.77344	72.936	60.209	1.211	1.157	10.686
-5.8	-3.66976	3.68455	93.046	76.418	1.218	1.145	10.505
-5.6	-3.48319	3.57234	113.333	92.197	1.229	1.137	10.307
-5.4	-3.29968	3.43927	130.591	105.033	1.243	1.132	10.090
-5.2	-3.11880	3.29117	141.781	112.925	1.256	1.129	9.856
-5.0	-2.93978	3.13590	145.335	115.055	1.263	1.127	9.613
-4.8	-2.76171	2.98152	141.576	111.869	1.266	1.126	9.370
-4.6	-2.58363	2.83477	132.106	104.630	1.263	1.126	9.136
-4.4	-2.40472	2.70036	119.039	94.857	1.255	1.127	8.920
-4.2	-2.22438	2.58086	104.480	83.923	1.245	1.128	8.726
-4.0	-2.04220	2.47709	89.940	72.882	1.234	1.130	8.556
-3.8	-1.85799	2.38866	76.376	62.430	1.223	1.133	8.413
-3.6	-1.67171	2.31438	64.304	52.964	1.214	1.137	8.295
-3.4	-1.48344	2.25270	53.895	44.655	1.207	1.142	8.201
-3.2	-1.29335	2.20192	45.123	37.535	1.202	1.148	8.130
-3.0	-1.10162	2.16037	37.848	31.539	1.200	1.155	8.077
-2.8	-.90848	2.12649	31.903	26.566	1.201	1.164	8.044
-2.6	-.71416	2.09889	27.088	22.494	1.204	1.173	8.025
-2.4	-.51885	2.07632	23.250	19.208	1.210	1.185	8.019
-2.2	-.32278	2.05764	20.237	16.608	1.218	1.197	8.024
-2.0	-.12613	2.04181	17.950	14.613	1.228	1.209	8.035
-1.8	.07088	2.02780	16.321	13.175	1.239	1.221	8.047
-1.6	.26803	2.01453	15.327	12.276	1.249	1.231	8.053
-1.4	.46505	2.00076	14.994	11.933	1.256	1.237	8.044
-1.2	.66162	1.98502	15.383	12.191	1.262	1.238	8.016
-1.0	.85734	1.96556	16.566	13.102	1.264	1.234	7.963
-.8	1.05175	1.94043	18.578	14.669	1.266	1.226	7.886
-.6	1.24437	1.90775	21.312	16.781	1.270	1.216	7.790
-.4	1.43482	1.86624	24.447	19.158	1.276	1.208	7.677
-.2	1.62292	1.81580	27.454	21.373	1.285	1.201	7.551
-.0	1.80883	1.75782	29.723	22.984	1.293	1.196	7.415
.2	1.99303	1.69501	30.819	23.701	1.300	1.193	7.273
.4	2.17623	1.63071	30.585	23.464	1.303	1.193	7.131
.6	2.35925	1.56819	29.219	22.421	1.303	1.194	6.996
.8	2.54288	1.51018	27.071	20.821	1.300	1.197	6.876
1.0	2.72785	1.45879	24.508	18.923	1.295	1.203	6.775
1.2	2.91484	1.41573	21.847	16.942	1.289	1.213	6.702
1.4	3.10459	1.38271	19.293	15.028	1.284	1.228	6.665
1.6	3.29806	1.36208		13.269		1.251	6.676
1.8	3.49657	1.35741		11.710		1.285	6.752
2.0	3.70201	1.37455	13.172	10.365	1.271	1.333	6.921

Table 1 Continued

T = 10, 100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.63545	3.94801	22.101	16.894	1.308	1.298	11.632
-6.6	-4.43750	3.92942	28.104	22.173	1.268	1.252	11.397
-6.4	-4.24061	3.90139	36.837	29.766	1.238	1.214	11.184
-6.2	-4.04522	3.86015	48.982	40.165	1.220	1.185	10.993
-6.0	-3.85188	3.80144	64.839	53.458	1.213	1.165	10.815
-5.8	-3.66111	3.72143	83.808	68.925	1.216	1.151	10.635
-5.6	-3.47334	3.61812	104.004	84.852	1.226	1.141	10.443
-5.4	-3.28868	3.49259	122.454	98.832	1.239	1.135	10.233
-5.2	-3.10685	3.34945	136.061	108.604	1.253	1.131	10.003
-5.0	-2.92722	3.19600	142.474	112.883	1.262	1.129	9.761
-4.8	-2.74889	3.04042	141.429	111.656	1.267	1.128	9.515
-4.6	-2.57091	2.89010	134.044	105.919	1.266	1.127	9.276
-4.4	-2.39241	2.75055	122.340	97.120	1.260	1.128	9.051
-4.2	-2.21267	2.62514	108.390	86.693	1.250	1.129	8.846
-4.0	-2.03123	2.51531	93.963	75.802	1.240	1.131	8.666
-3.8	-1.84782	2.42107	80.191	65.261	1.229	1.133	8.512
-3.6	-1.66233	2.34150	67.728	55.568	1.219	1.137	8.384
-3.4	-1.47481	2.27516	56.870	46.966	1.211	1.141	8.281
-3.2	-1.28540	2.22037	47.647	39.530	1.205	1.147	8.201
-3.0	-1.09428	2.17543	39.943	33.230	1.202	1.153	8.141
-2.8	-.90166	2.13875	33.617	27.974	1.202	1.161	8.100
-2.6	-.70778	2.10886	28.484	23.652	1.204	1.171	8.076
-2.4	-.51283	2.08445	24.363	20.145	1.209	1.182	8.065
-2.2	-.31705	2.06433	21.109	17.349	1.217	1.193	8.066
-2.0	-.12062	2.04742	18.610	15.181	1.226	1.206	8.075
-1.8	.07625	2.03269	16.787	13.578	1.236	1.218	8.086
-1.6	.27332	2.01905	15.602	12.517	1.246	1.229	8.094
-1.4	.47035	2.00529	15.068	12.005	1.255	1.236	8.090
-1.2	.66703	1.99000	15.232	12.079	1.261	1.238	8.067
-1.0	.86297	1.97150	16.171	12.787	1.265	1.236	8.021
-.8	1.05773	1.94785	17.931	14.153	1.267	1.229	7.951
-.6	1.25082	1.91711	20.450	16.100	1.270	1.220	7.859
-.4	1.44182	1.87779	23.469	18.395	1.276	1.211	7.750
-.2	1.63050	1.82945	26.507	20.646	1.284	1.204	7.627
-.0	1.81691	1.77310	28.962	22.405	1.293	1.199	7.492
.2	2.00147	1.71118	30.347	23.336	1.300	1.195	7.350
.4	2.18485	1.64695	30.431	23.324	1.305	1.194	7.208
.6	2.36787	1.58378	29.332	22.470	1.305	1.195	7.071
.8	2.55134	1.52463	27.361	21.004	1.303	1.198	6.946
1.0	2.73603	1.47183	24.900	19.184	1.298	1.204	6.841
1.2	2.92268	1.42724	22.270	17.235	1.292	1.214	6.764
1.4	3.11206	1.39277	19.709	15.320	1.286	1.229	6.723
1.6	3.30513	1.37076		13.541		1.251	6.730
1.8	3.50327	1.36489		11.951		1.284	6.803
2.0	3.70837	1.38100	13.447	10.570	1.272	1.332	6.970

Table 1 Continued

T = 10, 200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.63060	3.95317	20.225	15.216	1.329	1.320	11.796
-6.6	-4.43235	3.93731	25.285	19.689	1.284	1.271	11.553
-6.4	-4.23501	3.91324	32.771	26.220	1.250	1.230	11.329
-6.2	-4.03900	3.87746	43.371	35.345	1.227	1.197	11.128
-6.0	-3.84482	3.82584	57.577	47.350	1.216	1.174	10.944
-5.8	-3.65302	3.75424	75.199	61.858	1.216	1.157	10.764
-5.6	-3.46409	3.65980	94.872	77.568	1.223	1.146	10.576
-5.4	-3.27826	3.54233	114.014	92.290	1.235	1.139	10.372
-5.2	-3.09541	3.40514	129.473	103.651	1.249	1.134	10.147
-5.0	-2.91504	3.25467	138.621	109.956	1.261	1.131	9.908
-4.8	-2.73632	3.09900	140.280	110.721	1.267	1.129	9.661
-4.6	-2.55832	2.94597	135.183	106.617	1.268	1.128	9.416
-4.4	-2.38010	2.80186	125.058	98.950	1.264	1.129	9.184
-4.2	-2.20089	2.67086	111.960	89.175	1.256	1.129	8.970
-4.0	-2.02014	2.55509	97.799	78.551	1.245	1.131	8.779
-3.8	-1.83749	2.45502	83.937	68.012	1.234	1.133	8.615
-3.6	-1.65279	2.37006	71.161	58.144	1.224	1.137	8.477
-3.4	-1.46603	2.29889	59.880	49.280	1.215	1.141	8.363
-3.2	-1.27731	2.23992	50.209	41.549	1.208	1.146	8.274
-3.0	-1.08682	2.19143	42.100	34.952	1.205	1.152	8.207
-2.8	-.89475	2.15179	35.394	29.418	1.203	1.160	8.158
-2.6	-.70132	2.11946	29.928	24.845	1.205	1.169	8.128
-2.4	-.50676	2.09308	25.523	21.116	1.209	1.179	8.112
-2.2	-.31128	2.07141	22.028	18.124	1.215	1.190	8.110
-2.0	-.11509	2.05333	19.315	15.779	1.224	1.203	8.116
-1.8	.08161	2.03776	17.295	14.016	1.234	1.215	8.126
-1.6	.27859	2.02364	15.923	12.797	1.244	1.226	8.135
-1.4	.47560	2.00977	15.194	12.120	1.254	1.235	8.135
-1.2	.67235	1.99480	15.144	12.016	1.260	1.239	8.118
-1.0	.86848	1.97709	15.848	12.530	1.265	1.237	8.078
-.8	1.06355	1.95475	17.356	13.696	1.267	1.232	8.013
-.6	1.25707	1.92580	19.652	15.468	1.270	1.223	7.926
-.4	1.44859	1.88860	22.526	17.659	1.276	1.214	7.821
-.2	1.63783	1.84236	25.552	19.915	1.283	1.207	7.700
-.0	1.82476	1.78774	28.159	21.792	1.292	1.201	7.568
.2	2.00972	1.72688	29.802	22.923	1.300	1.197	7.427
.4	2.19332	1.66291	30.204	23.132	1.306	1.196	7.283
.6	2.37638	1.59928	29.375	22.474	1.307	1.197	7.144
.8	2.55972	1.53911	27.606	21.152	1.305	1.199	7.017
1.0	2.74417	1.48496	25.264	19.420	1.301	1.205	6.909
1.2	2.93049	1.43891	22.683	17.512	1.295	1.214	6.827
1.4	3.11951	1.40297	20.116	15.604	1.289	1.229	6.782
1.6	3.31221	1.37961		13.810		1.251	6.786
1.8	3.50998	1.37254		12.193		1.284	6.856
2.0	3.71471	1.38758	13.727	10.780	1.273	1.331	7.020

Table 1 Continued

T = 10, 300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
−6.8	−4.62589	3.95748	18.676	13.846	1.349	1.341	11.956
−6.6	−4.42738	3.94392	22.969	17.633	1.303	1.291	11.710
−6.4	−4.22966	3.92324	29.350	23.224	1.264	1.246	11.475
−6.2	−4.03311	3.89224	38.553	31.184	1.236	1.210	11.264
−6.0	−3.83819	3.84698	51.166	41.911	1.221	1.184	11.074
−5.8	−3.64545	3.78320	67.315	55.329	1.217	1.164	10.892
−5.6	−3.45541	3.69742	86.133	70.520	1.221	1.151	10.707
−5.4	−3.26842	3.58830	105.473	85.604	1.232	1.142	10.508
−5.2	−3.08451	3.45783	122.319	98.213	1.245	1.137	10.289
−5.0	−2.90329	3.31143	133.841	106.363	1.258	1.133	10.053
−4.8	−2.72407	3.15677	138.198	109.113	1.267	1.131	9.806
−4.6	−2.54590	3.00197	135.506	106.733	1.270	1.130	9.558
−4.4	−2.36786	2.85398	127.148	100.346	1.267	1.130	9.319
−4.2	−2.18909	2.71780	115.158	91.366	1.260	1.130	9.096
−4.0	−2.00896	2.59626	101.448	81.128	1.250	1.132	8.895
−3.8	−1.82704	2.49040	87.599	70.670	1.240	1.134	8.720
−3.6	−1.64310	2.39996	74.589	60.693	1.229	1.137	8.571
−3.4	−1.45710	2.32385	62.934	51.607	1.219	1.140	8.448
−3.2	−1.26910	2.26055	52.842	43.600	1.212	1.145	8.350
−3.0	−1.07924	2.20836	44.320	36.715	1.207	1.151	8.274
−2.8	−.88773	2.16560	37.240	30.908	1.205	1.158	8.219
−2.6	−.69479	2.13071	31.436	26.082	1.205	1.167	8.183
−2.4	−.50063	2.10223	26.742	22.128	1.208	1.177	8.162
−2.2	−.30548	2.07890	22.994	18.938	1.214	1.187	8.154
−2.0	−.10954	2.05953	20.066	16.418	1.222	1.199	8.157
−1.8	.08697	2.04304	17.852	14.492	1.232	1.212	8.165
−1.6	.28383	2.02834	16.294	13.120	1.242	1.223	8.175
−1.4	.48081	2.01426	15.379	12.287	1.252	1.233	8.177
−1.2	.67761	1.99947	15.132	12.015	1.259	1.238	8.166
−1.0	.87389	1.98242	15.611	12.348	1.264	1.238	8.132
−.8	1.06922	1.96124	16.885	13.323	1.267	1.234	8.073
−.6	1.26314	1.93395	18.954	14.921	1.270	1.226	7.991
−.4	1.45516	1.89877	21.674	16.995	1.275	1.218	7.891
−.2	1.64495	1.85464	24.665	19.232	1.283	1.210	7.773
−.0	1.83241	1.80186	27.382	21.205	1.291	1.204	7.642
.2	2.01779	1.74222	29.263	22.515	1.300	1.200	7.502
.4	2.20166	1.67870	29.959	22.939	1.306	1.198	7.359
.6	2.38480	1.61477	29.409	22.478	1.308	1.198	7.218
.8	2.56806	1.55372	27.851	21.304	1.307	1.200	7.087
1.0	2.75229	1.49830	25.633	19.668	1.303	1.206	6.975
1.2	2.93831	1.45082	23.111	17.808	1.298	1.215	6.890
1.4	3.12696	1.41342	20.549	15.910	1.292	1.229	6.840
1.8	3.51670	1.38040		14.103		1.283	6.907
2.0	3.72106	1.39434		12.457		1.330	7.068
1.6	3.31931	1.38872		11.011	1.274	1.251	6.840

Table 1 Continued

T = 10, 400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.62130	3.96108	17.409	12.714	1.369	1.362	12.114
-6.6	-4.42257	3.94948	21.038	15.921	1.321	1.311	11.866
-6.4	-4.22453	3.93170	26.485	20.704	1.279	1.264	11.623
-6.2	-4.02751	3.90486	34.440	27.619	1.247	1.224	11.403
-6.0	-3.83193	3.86526	45.578	37.140	1.227	1.194	11.204
-5.8	-3.63834	3.80868	60.216	49.420	1.218	1.172	11.018
-5.6	-3.44726	3.73120	77.935	63.861	1.220	1.157	10.834
-5.4	-3.25914	3.63054	97.067	78.961	1.229	1.147	10.640
-5.2	-3.07413	3.50740	114.887	92.495	1.242	1.140	10.427
-5.0	-2.89199	3.36603	128.351	102.257	1.255	1.135	10.195
-4.8	-2.71214	3.21347	135.311	106.912	1.266	1.133	9.949
-4.6	-2.53369	3.05787	135.062	106.319	1.270	1.131	9.699
-4.4	-2.35571	2.90675	128.672	101.327	1.270	1.131	9.455
-4.2	-2.17728	2.76587	117.950	93.280	1.264	1.131	9.224
-4.0	-1.99770	2.63881	104.900	83.545	1.256	1.132	9.014
-3.8	-1.81647	2.52723	91.184	73.256	1.245	1.134	8.828
-3.6	-1.63328	2.43126	78.016	63.228	1.234	1.137	8.669
-3.4	-1.44803	2.35009	66.040	53.953	1.224	1.140	8.536
-3.2	-1.26074	2.28231	55.559	45.690	1.216	1.145	8.429
-3.0	-1.07154	2.22625	46.617	38.529	1.210	1.150	8.345
-2.8	-.88061	2.18023	39.154	32.447	1.207	1.157	8.282
-2.6	-.68817	2.14262	33.012	27.367	1.206	1.165	8.239
-2.4	-.49443	2.11194	28.019	23.185	1.208	1.174	8.212
-2.2	-.29963	2.08682	24.017	19.792	1.213	1.185	8.200
-2.0	-.10397	2.06607	20.862	17.090	1.221	1.196	8.199
-1.8	.09233	2.04856	18.449	15.002	1.230	1.209	8.206
-1.6	.28906	2.03317	16.706	13.473	1.240	1.221	8.215
-1.4	.48597	2.01876	15.601	12.484	1.250	1.231	8.219
-1.2	.68280	2.00405	15.153	12.044	1.258	1.237	8.212
-1.0	.87919	1.98750	15.412	12.191	1.264	1.239	8.184
-.8	1.07476	1.96733	16.443	12.966	1.268	1.236	8.132
-.6	1.26903	1.94154	18.265	14.368	1.271	1.229	8.056
-.4	1.46153	1.90825	20.781	16.290	1.276	1.221	7.960
-.2	1.65185	1.86621	23.673	18.458	1.283	1.213	7.846
-.0	1.83984	1.81531	26.437	20.474	1.291	1.207	7.718
.2	2.02567	1.75704	28.505	21.926	1.300	1.202	7.579
.4	2.20984	1.69414	29.463	22.545	1.307	1.200	7.435
.6	2.39310	1.63009	29.197	22.280	1.310	1.200	7.293
.8	2.57631	1.56828	27.867	21.273	1.310	1.202	7.160
1.0	2.76035	1.51171	25.807	19.754	1.306	1.207	7.044
1.2	2.94609	1.46284	23.372	17.964	1.301	1.216	6.954
1.4	3.13440	1.42403	20.845	16.101	1.295	1.230	6.901
1.6	3.32637	1.39794		14.300		1.251	6.897
1.8	3.52339	1.38838		12.647		1.283	6.961
2.0	3.72739	1.40122	14.271	11.183	1.276	1.330	7.118

Table 1 Continued

T = 10,500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.61681	3.96410	16.355	11.773	1.389	1.383	12.269
-6.6	-4.41790	3.95415	19.420	14.487	1.340	1.332	12.024
-6.4	-4.21959	3.93885	24.060	18.571	1.296	1.282	11.776
-6.2	-4.02216	3.91561	30.916	24.548	1.259	1.240	11.545
-6.0	-3.82601	3.88102	40.675	32.936	1.235	1.206	11.336
-5.8	-3.63165	3.83097	53.836	44.040	1.222	1.181	11.146
-5.6	-3.43962	3.76132	70.267	57.577	1.220	1.163	10.961
-5.4	-3.25041	3.66903	88.825	72.389	1.227	1.151	10.769
-5.2	-3.06428	3.55363	107.142	86.482	1.239	1.143	10.562
-5.0	-2.88117	3.41812	122.186	97.594	1.252	1.138	10.335
-4.8	-2.70059	3.26867	131.472	104.028	1.264	1.135	10.092
-4.6	-2.52174	3.11328	133.721	105.238	1.271	1.133	9.841
-4.4	-2.34369	2.95984	129.432	101.747	1.272	1.132	9.592
-4.2	-2.16551	2.81480	120.189	94.766	1.268	1.132	9.354
-4.0	-1.98641	2.68255	107.970	85.666	1.260	1.133	9.135
-3.8	-1.80581	2.56537	94.579	75.658	1.250	1.135	8.939
-3.6	-1.62334	2.46389	81.354	65.654	1.239	1.137	8.770
-3.4	-1.43882	2.37757	69.122	56.246	1.229	1.140	8.627
-3.2	-1.25225	2.30517	58.270	47.763	1.220	1.144	8.510
-3.0	-1.06372	2.24511	48.948	40.343	1.213	1.149	8.417
-2.8	-.87339	2.19569	41.108	33.999	1.209	1.156	8.347
-2.6	-.68146	2.15523	34.626	28.671	1.208	1.163	8.297
-2.4	-.48817	2.12220	29.337	24.264	1.209	1.172	8.264
-2.2	-.29373	2.09520	25.075	20.671	1.213	1.182	8.247
-2.0	-.09837	2.07296	21.697	17.790	1.220	1.194	8.243
-1.8	.09771	2.05432	19.086	15.541	1.228	1.206	8.247
-1.6	.29428	2.03816	17.160	13.863	1.238	1.218	8.255
-1.4	.49111	2.02332	15.878	12.726	1.248	1.228	8.261
-1.2	.68793	2.00856	15.247	12.133	1.257	1.236	8.257
-1.0	.88442	1.99239	15.306	12.114	1.264	1.240	8.235
-.8	1.08018	1.97307	16.114	12.711	1.268	1.238	8.189
-.6	1.27477	1.94862	17.721	13.938	1.271	1.232	8.119
-.4	1.46770	1.91714	20.045	15.717	1.275	1.224	8.026
-.2	1.65853	1.87709	22.845	17.819	1.282	1.216	7.916
-.0	1.84705	1.82812	25.644	19.872	1.291	1.209	7.790
.2	2.03334	1.77132	27.879	21.457	1.299	1.204	7.653
.4	2.21784	1.70922	29.095	22.265	1.307	1.201	7.509
.6	2.40126	1.64520	29.103	22.195	1.311	1.201	7.366
.8	2.58447	1.58279	28.004	21.349	1.312	1.203	7.231
1.0	2.76835	1.52515	26.101	19.943	1.309	1.208	7.112
1.2	2.95383	1.47497	23.745	18.215	1.304	1.216	7.018
1.4	3.14182	1.43476	21.244	16.375	1.297	1.230	6.960
1.6	3.33343	1.40731		14.571		1.251	6.953
1.8	3.53009	1.39653		12.898		1.283	7.013
2.0	3.73371	1.40821	14.569	11.404	1.278	1.329	7.168

Table 1 Continued

T = 10,600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.61242	3.96663	15.488	11.002	1.408	1.402	12.416
-6.6	-4.41335	3.95809	18.083	13.301	1.359	1.352	12.178
-6.4	-4.21480	3.94490	22.043	16.787	1.313	1.301	11.929
-6.2	-4.01703	3.92477	27.943	21.947	1.273	1.256	11.690
-6.0	-3.82038	3.89458	36.462	29.308	1.244	1.219	11.471
-5.8	-3.62533	3.85042	48.197	39.269	1.227	1.191	11.273
-5.6	-3.43242	3.78806	63.309	51.812	1.222	1.171	11.086
-5.4	-3.24218	3.70392	81.025	66.100	1.226	1.157	10.897
-5.2	-3.05496	3.59648	99.406	80.444	1.236	1.147	10.693
-5.0	-2.87083	3.46748	115.655	92.608	1.249	1.141	10.472
-4.8	-2.68943	3.32210	126.975	100.662	1.261	1.137	10.233
-4.6	-2.51007	3.16790	131.668	103.638	1.270	1.135	9.982
-4.4	-2.33184	3.01299	129.541	101.722	1.273	1.134	9.730
-4.2	-2.15380	2.86443	121.954	95.920	1.271	1.133	9.486
-4.0	-1.97510	2.72737	110.766	87.566	1.265	1.134	9.258
-3.8	-1.79507	2.60477	97.833	77.934	1.255	1.135	9.053
-3.6	-1.61328	2.49780	84.645	68.026	1.244	1.137	8.873
-3.4	-1.42949	2.40628	72.204	58.532	1.234	1.140	8.720
-3.2	-1.24364	2.32917	61.034	49.857	1.224	1.144	8.594
-3.0	-1.05578	2.26496	51.342	42.195	1.217	1.149	8.492
-2.8	-.86606	2.21199	43.132	35.595	1.212	1.155	8.414
-2.6	-.67467	2.16854	36.302	30.020	1.209	1.162	8.357
-2.4	-.48184	2.13305	30.709	25.385	1.210	1.170	8.318
-2.2	-.28779	2.10405	26.184	21.587	1.213	1.180	8.296
-2.0	-.09273	2.08022	22.577	18.526	1.219	1.191	8.288
-1.8	.10310	2.06036	19.764	16.114	1.227	1.203	8.288
-1.6	.29950	2.04333	17.657	14.286	1.236	1.215	8.296
-1.4	.49622	2.02797	16.203	13.005	1.246	1.226	8.302
-1.2	.69302	2.01306	15.392	12.263	1.255	1.235	8.300
-1.0	.88957	1.99714	15.256	12.086	1.262	1.239	8.282
-.8	1.08550	1.97854	15.859	12.512	1.268	1.239	8.244
-.6	1.28038	1.95533	17.244	13.566	1.271	1.234	8.179
-.4	1.47370	1.92550	19.379	15.196	1.275	1.227	8.091
-.2	1.66503	1.88741	22.060	17.214	1.281	1.219	7.984
-.0	1.85407	1.84039	24.863	19.280	1.290	1.211	7.861
.2	2.04084	1.78517	27.241	20.975	1.299	1.206	7.726
.4	2.22570	1.72402	28.696	21.958	1.307	1.203	7.583
.6	2.40932	1.66021	28.966	22.082	1.312	1.202	7.439
.8	2.59256	1.59734	28.102	21.402	1.313	1.204	7.301
1.0	2.77632	1.53873	26.369	20.115	1.311	1.209	7.180
1.2	2.96156	1.48730	24.109	18.460	1.306	1.217	7.082
1.4	3.14924	1.44572	21.640	16.650	1.300	1.230	7.021
1.6	3.34051	1.41692		14.848		1.251	7.009
1.8	3.53678	1.40483		13.155		1.282	7.066
2.0	3.74004	1.41539	14.878	11.636	1.279	1.328	7.217

Table 1 Continued

T = 10,700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.60811	3.96876	14.774	10.362	1.426	1.421	12.560
-6.6	-4.40891	3.96141	16.971	12.311	1.378	1.371	12.327
-6.4	-4.21016	3.95002	20.347	15.287	1.331	1.321	12.081
-6.2	-4.01208	3.93258	25.416	19.729	1.288	1.273	11.836
-6.0	-3.81500	3.90624	32.840	26.161	1.255	1.233	11.608
-5.8	-3.61935	3.86734	43.241	35.044	1.234	1.201	11.402
-5.6	-3.42564	3.81170	56.973	46.536	1.224	1.178	11.210
-5.4	-3.23443	3.73535	73.664	60.127	1.225	1.162	11.021
-5.2	-3.04615	3.63592	91.800	74.432	1.233	1.151	10.822
-5.0	-2.86097	3.51394	108.832	87.366	1.246	1.144	10.606
-4.8	-2.67868	3.37347	121.876	96.828	1.259	1.140	10.371
-4.6	-2.49871	3.22143	128.823	101.503	1.269	1.137	10.122
-4.4	-2.32020	3.06594	128.963	101.199	1.274	1.135	9.867
-4.2	-2.14219	2.91454	123.161	96.679	1.274	1.134	9.618
-4.0	-1.96379	2.77311	113.170	89.191	1.269	1.135	9.383
-3.8	-1.78428	2.64534	100.861	80.038	1.260	1.136	9.168
-3.6	-1.60313	2.53297	87.835	70.309	1.249	1.137	8.979
-3.4	-1.42005	2.43621	75.273	60.784	1.238	1.140	8.816
-3.2	-1.23490	2.35428	63.828	51.952	1.229	1.144	8.680
-3.0	-1.04772	2.28581	53.780	44.068	1.220	1.148	8.569
-2.8	-.85862	2.22914	45.208	37.223	1.215	1.154	8.483
-2.6	-.66779	2.18259	38.039	31.405	1.211	1.161	8.419
-2.4	-.47544	2.14450	32.134	26.541	1.211	1.169	8.374
-2.2	-.28178	2.11338	27.340	22.539	1.213	1.178	8.346
-2.0	-.08706	2.08786	23.494	19.294	1.218	1.189	8.333
-1.8	.10851	2.06669	20.481	16.718	1.225	1.200	8.331
-1.6	.30472	2.04870	18.188	14.739	1.234	1.212	8.336
-1.4	.50132	2.03273	16.560	13.311	1.244	1.224	8.342
-1.2	.69806	2.01755	15.568	12.419	1.254	1.233	8.343
-1.0	.89465	2.00178	15.241	12.080	1.262	1.239	8.330
-.8	1.09073	1.98376	15.629	12.330	1.268	1.240	8.297
-.6	1.28585	1.96162	16.783	13.198	1.272	1.237	8.239
-.4	1.47954	1.93332	18.700	14.654	1.276	1.230	8.156
-.2	1.67133	1.89711	21.210	16.551	1.281	1.222	8.053
-.0	1.86088	1.85202	23.961	18.579	1.290	1.214	7.933
.2	2.04814	1.79847	26.416	20.341	1.299	1.209	7.799
.4	2.23339	1.73840	28.064	21.469	1.307	1.205	7.657
.6	2.41724	1.67496	28.588	21.771	1.313	1.204	7.513
.8	2.60054	1.61176	27.966	21.263	1.315	1.206	7.373
1.0	2.78422	1.55231	26.420	20.111	1.314	1.210	7.249
1.2	2.96924	1.49970	24.284	18.549	1.309	1.218	7.148
1.4	3.15663	1.45678	21.882	16.793	1.303	1.231	7.083
1.6	3.34756	1.42664		15.013		1.251	7.066
1.8	3.54347	1.41330		13.326		1.282	7.119
2.0	3.74635	1.42268	15.107	11.797	1.281	1.326	7.266

Table 1 Continued

T = 10,800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.60387	3.97056	14.178	9.829	1.442	1.438	12.699
-6.6	-4.40457	3.96422	16.042	11.482	1.397	1.391	12.478
-6.4	-4.20564	3.95437	18.910	14.021	1.349	1.340	12.233
-6.2	-4.00731	3.93924	23.277	17.844	1.304	1.291	11.983
-6.0	-3.80985	3.91625	29.712	23.445	1.267	1.248	11.747
-5.8	-3.61366	3.88204	38.888	31.316	1.242	1.213	11.532
-5.6	-3.41924	3.83251	51.270	41.749	1.228	1.187	11.335
-5.4	-3.22713	3.76353	66.805	54.509	1.226	1.169	11.145
-5.2	-3.03782	3.67201	84.396	68.519	1.232	1.156	10.949
-5.0	-2.85159	3.55740	101.812	81.918	1.243	1.148	10.738
-4.8	-2.66837	3.42255	116.237	92.558	1.256	1.142	10.507
-4.6	-2.48770	3.27358	125.221	98.816	1.267	1.139	10.260
-4.4	-2.30879	3.11840	127.628	100.129	1.275	1.137	10.005
-4.2	-2.13071	2.96490	123.726	96.969	1.276	1.136	9.752
-4.0	-1.95253	2.81962	115.084	90.460	1.272	1.136	9.510
-3.8	-1.77346	2.68697	103.568	81.896	1.265	1.136	9.286
-3.6	-1.59291	2.56931	90.869	72.432	1.255	1.138	9.087
-3.4	-1.41050	2.46733	78.263	62.945	1.243	1.140	8.914
-3.2	-1.22605	2.38051	66.586	54.003	1.233	1.144	8.768
-3.0	-1.03955	2.30766	56.229	45.927	1.224	1.148	8.649
-2.8	-.85108	2.24718	47.309	38.855	1.218	1.153	8.554
-2.6	-.66082	2.19737	39.807	32.803	1.214	1.159	8.482
-2.4	-.46896	2.15657	33.596	27.719	1.212	1.167	8.431
-2.2	-.27573	2.12322	28.529	23.512	1.213	1.176	8.398
-2.0	-.08135	2.09591	24.455	20.086	1.218	1.186	8.380
-1.8	.11395	2.07333	21.230	17.347	1.224	1.198	8.374
-1.6	.30994	2.05429	18.755	15.219	1.232	1.209	8.376
-1.4	.50640	2.03761	16.954	13.652	1.242	1.221	8.382
-1.2	.70308	2.02208	15.800	12.623	1.252	1.231	8.385
-1.0	.89968	2.00633	15.298	12.137	1.260	1.238	8.376
-.8	1.09586	1.98877	15.492	12.229	1.267	1.241	8.348
-.6	1.29121	1.96756	16.444	12.931	1.272	1.238	8.295
-.4	1.48523	1.94065	18.157	14.233	1.276	1.232	8.218
-.2	1.67745	1.90622	20.523	16.018	1.281	1.225	8.119
-.0	1.86750	1.86303	23.217	18.015	1.289	1.217	8.002
.2	2.05524	1.81119	25.748	19.837	1.298	1.211	7.871
.4	2.24089	1.75233	27.577	21.106	1.307	1.207	7.730
.6	2.42501	1.68941	28.349	21.584	1.313	1.206	7.585
.8	2.60841	1.62604	27.966	21.242	1.316	1.207	7.444
1.0	2.79203	1.56585	26.601	20.223	1.315	1.210	7.316
1.2	2.97687	1.51214	24.587	18.747	1.312	1.218	7.213
1.4	3.16398	1.46793	22.239	17.035	1.305	1.231	7.144
1.6	3.35457	1.43647		15.267		1.251	7.124
1.8	3.55014	1.42188		13.569		1.281	7.173
2.0	3.75264	1.43008	15.410	12.018	1.282	1.326	7.317

Table 1 Continued

T = 10,900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.59970	3.97209	13.685	9.394	1.457	1.454	12.830
-6.6	-4.40030	3.96659	15.268	10.796	1.414	1.410	12.625
-6.4	-4.20124	3.95806	17.723	12.963	1.367	1.359	12.383
-6.2	-4.00268	3.94491	21.462	16.249	1.321	1.309	12.134
-6.0	-3.80490	3.92485	27.036	21.113	1.280	1.264	11.890
-5.8	-3.60824	3.89477	35.096	28.056	1.251	1.226	11.666
-5.6	-3.41317	3.85078	46.202	37.459	1.233	1.197	11.462
-5.4	-3.22023	3.78866	60.503	49.299	1.227	1.176	11.269
-5.2	-3.02995	3.70483	77.294	62.824	1.230	1.161	11.074
-5.0	-2.84269	3.59775	94.770	76.410	1.240	1.152	10.867
-4.8	-2.65850	3.46911	110.224	87.961	1.253	1.145	10.641
-4.6	-2.47705	3.32405	121.031	95.652	1.265	1.141	10.397
-4.4	-2.29765	3.17006	125.570	98.548	1.274	1.139	10.142
-4.2	-2.11940	3.01525	123.675	96.805	1.278	1.137	9.886
-4.0	-1.94134	2.86667	116.528	91.372	1.275	1.137	9.638
-3.8	-1.76264	2.72950	105.949	83.498	1.269	1.137	9.407
-3.6	-1.58262	2.60674	93.695	74.392	1.259	1.139	9.198
-3.4	-1.40086	2.49956	81.162	65.008	1.248	1.141	9.015
-3.2	-1.21710	2.40782	69.317	56.003	1.238	1.144	8.860
-3.0	-1.03127	2.33049	58.672	47.767	1.228	1.148	8.731
-2.8	-.84344	2.26608	49.432	40.485	1.221	1.153	8.628
-2.6	-.65376	2.21290	41.600	34.211	1.216	1.159	8.548
-2.4	-.46241	2.16927	35.090	28.910	1.214	1.166	8.490
-2.2	-.26961	2.13358	29.754	24.503	1.214	1.175	8.452
-2.0	-.07560	2.10437	25.441	20.895	1.218	1.184	8.428
-1.8	.11940	2.08029	22.010	17.995	1.223	1.195	8.418
-1.6	.31517	2.06011	19.354	15.720	1.231	1.207	8.418
-1.4	.51147	2.04265	17.384	14.016	1.240	1.219	8.423
-1.2	.70806	2.02667	16.065	12.850	1.250	1.229	8.426
-1.0	.90466	2.01085	15.394	12.226	1.259	1.237	8.421
-.8	1.10093	1.99364	15.407	12.168	1.266	1.241	8.397
-.6	1.29646	1.97323	16.157	12.712	1.271	1.240	8.350
-.4	1.49078	1.94762	17.677	13.860	1.275	1.234	8.278
-.2	1.68342	1.91484	19.883	15.523	1.281	1.227	8.184
-.0	1.87394	1.87355	22.503	17.470	1.288	1.220	8.071
.2	2.06218	1.82347	25.080	19.334	1.297	1.214	7.942
.4	2.24825	1.76593	27.075	20.727	1.306	1.210	7.803
.6	2.43267	1.70368	28.072	21.373	1.313	1.208	7.658
.8	2.61620	1.64028	27.928	21.200	1.317	1.208	7.516
1.0	2.79979	1.57947	26.763	20.319	1.317	1.212	7.386
1.2	2.98448	1.52473	24.872	18.935	1.314	1.219	7.279
1.4	3.17134	1.47929	22.588	17.275	1.308	1.232	7.206
1.6	3.36161	1.44653		15.525		1.252	7.183
1.8	3.55681	1.43064		13.821		1.282	7.229
2.0	3.75894	1.43767	15.726	12.252	1.284	1.325	7.369

Table 1 Continued

T = 11,000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.59559	3.97338	13.253	9.008	1.471	1.468	12.952
-6.6	-4.39611	3.96861	14.606	10.201	1.432	1.426	12.758
-6.4	-4.19693	3.96121	16.707	12.053	1.386	1.378	12.531
-6.2	-3.99818	3.94976	19.912	14.879	1.338	1.327	12.280
-6.0	-3.80011	3.93223	24.753	19.104	1.296	1.280	12.033
-5.8	-3.60304	3.90579	31.821	25.215	1.262	1.239	11.800
-5.6	-3.40740	3.86678	41.718	33.651	1.240	1.207	11.588
-5.4	-3.21371	3.81100	54.789	44.552	1.230	1.184	11.390
-5.2	-3.02252	3.73454	70.656	57.441	1.230	1.167	11.196
-5.0	-2.83424	3.63504	87.898	70.997	1.238	1.156	10.993
-4.8	-2.64907	3.51304	104.065	83.233	1.250	1.148	10.772
-4.6	-2.46678	3.37263	116.427	92.186	1.263	1.143	10.532
-4.4	-2.28680	3.22070	122.986	96.607	1.273	1.140	10.278
-4.2	-2.10827	3.06536	123.134	96.316	1.278	1.139	10.020
-4.0	-1.93025	2.91411	117.608	92.035	1.278	1.138	9.767
-3.8	-1.75183	2.77283	108.105	84.944	1.273	1.138	9.528
-3.6	-1.57230	2.64518	96.404	76.275	1.264	1.139	9.310
-3.4	-1.39114	2.53290	84.048	67.054	1.253	1.141	9.118
-3.2	-1.20804	2.43620	72.089	58.024	1.242	1.144	8.953
-3.0	-1.02289	2.35432	61.195	49.649	1.233	1.147	8.815
-2.8	-.83570	2.28586	51.635	42.171	1.224	1.152	8.703
-2.6	-.64661	2.22920	43.480	35.679	1.219	1.158	8.616
-2.4	-.45578	2.18261	36.660	30.157	1.216	1.165	8.551
-2.2	-.26343	2.14447	31.041	25.545	1.215	1.173	8.506
-2.0	-.06980	2.11326	26.485	21.751	1.218	1.182	8.478
-1.8	.12489	2.08759	22.843	18.684	1.223	1.193	8.464
-1.6	.32042	2.06619	19.994	16.258	1.230	1.204	8.461
-1.4	.51654	2.04785	17.853	14.413	1.239	1.216	8.464
-1.2	.71303	2.03134	16.366	13.109	1.248	1.227	8.468
-1.0	.90960	2.01534	15.521	12.341	1.258	1.236	8.463
-.8	1.10592	1.99836	15.347	12.128	1.265	1.241	8.444
-.6	1.30161	1.97863	15.896	12.501	1.272	1.241	8.404
-.4	1.49621	1.95416	17.199	13.478	1.276	1.237	8.338
-.2	1.68922	1.92296	19.207	14.994	1.281	1.230	8.248
-.0	1.88021	1.88348	21.705	16.847	1.288	1.223	8.139
.2	2.06892	1.83518	24.266	18.708	1.297	1.216	8.013
.4	2.25544	1.77905	26.371	20.185	1.306	1.212	7.875
.6	2.44017	1.71760	27.565	20.977	1.314	1.210	7.731
.8	2.62387	1.65432	27.650	20.967	1.319	1.210	7.588
1.0	2.80747	1.59301	26.697	20.231	1.320	1.213	7.456
1.2	2.99202	1.53734	24.955	18.959	1.316	1.220	7.345
1.4	3.17865	1.49073	22.765	17.370	1.311	1.232	7.269
1.6	3.36862	1.45669		15.660		1.252	7.242
1.8	3.56348	1.43954		13.972		1.281	7.284
2.0	3.76522	1.44537	15.947	12.404	1.286	1.325	7.421

Table 1 Continued

T = 11, 100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.59154	3.97448	12.936	8.722	1.483	1.480	13.065
-6.6	-4.39200	3.97033	14.078	9.737	1.446	1.441	12.887
-6.4	-4.19270	3.96389	15.871	11.320	1.402	1.396	12.671
-6.2	-3.99380	3.95391	18.640	13.753	1.355	1.346	12.426
-6.0	-3.79548	3.93858	22.827	17.415	1.311	1.297	12.174
-5.8	-3.59805	3.91534	29.003	22.773	1.274	1.253	11.935
-5.6	-3.40190	3.88078	37.799	30.298	1.248	1.218	11.715
-5.4	-3.20753	3.83082	49.648	40.250	1.233	1.192	11.512
-5.2	-3.01548	3.76134	64.472	52.390	1.231	1.173	11.318
-5.0	-2.82624	3.66933	81.216	65.683	1.236	1.160	11.116
-4.8	-2.64007	3.55428	97.755	78.351	1.248	1.152	10.900
-4.6	-2.45690	3.41917	111.378	88.364	1.260	1.146	10.664
-4.4	-2.27626	3.27012	119.786	94.207	1.272	1.142	10.413
-4.2	-2.09736	3.11504	121.933	95.365	1.279	1.140	10.154
-4.0	-1.91927	2.96179	118.138	92.303	1.280	1.139	9.897
-3.8	-1.74106	2.81685	109.842	86.085	1.276	1.139	9.651
-3.6	-1.56195	2.68458	98.853	77.940	1.268	1.140	9.425
-3.4	-1.38135	2.56729	86.774	68.960	1.258	1.142	9.224
-3.2	-1.19889	2.46565	74.783	59.965	1.247	1.144	9.049
-3.0	-1.01440	2.37915	63.682	51.492	1.237	1.147	8.901
-2.8	-.82786	2.30655	53.846	43.841	1.228	1.152	8.781
-2.6	-.63936	2.24627	45.377	37.144	1.222	1.157	8.686
-2.4	-.44907	2.19662	38.251	31.414	1.218	1.164	8.614
-2.2	-.25719	2.15592	32.360	26.603	1.216	1.171	8.562
-2.0	-.06395	2.12261	27.556	22.626	1.218	1.180	8.528
-1.8	.13041	2.09525	23.698	19.392	1.222	1.191	8.510
-1.6	.32568	2.07254	20.664	16.818	1.229	1.202	8.503
-1.4	.52162	2.05324	18.355	14.837	1.237	1.214	8.505
-1.2	.71798	2.03610	16.708	13.403	1.247	1.225	8.508
-1.0	.91449	2.01984	15.705	12.504	1.256	1.234	8.506
-.8	1.11085	2.00298	15.366	12.152	1.264	1.240	8.491
-.6	1.30668	1.98381	15.734	12.381	1.271	1.242	8.456
-.4	1.50151	1.96036	16.850	13.208	1.276	1.239	8.395
-.2	1.69487	1.93062	18.690	14.593	1.281	1.232	8.310
-.0	1.88630	1.89286	21.077	16.373	1.287	1.225	8.204
.2	2.07549	1.84634	23.638	18.237	1.296	1.219	8.082
.4	2.26244	1.79170	25.851	19.802	1.305	1.214	7.945
.6	2.44752	1.73117	27.246	20.738	1.314	1.211	7.802
.8	2.63141	1.66814	27.557	20.890	1.319	1.211	7.659
1.0	2.81505	1.60647	26.803	20.295	1.321	1.214	7.525
1.2	2.99950	1.54995	25.211	19.125	1.318	1.221	7.412
1.4	3.18591	1.50221	23.098	17.596	1.313	1.233	7.333
1.6	3.37558	1.46691		15.912		1.252	7.302
1.8	3.57011	1.44853		14.223		1.281	7.340
2.0	3.77149	1.45315	16.267	12.636	1.287	1.324	7.474

Table 1 Continued

T = 11, 200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.58754	3.97542	12.670	8.493	1.492	1.490	13.171
-6.6	-4.38794	3.97180	13.648	9.355	1.459	1.456	13.014
-6.4	-4.18856	3.96618	15.181	10.709	1.418	1.412	12.808
-6.2	-3.98951	3.95746	17.556	12.801	1.372	1.364	12.572
-6.0	-3.79099	3.94404	21.182	15.972	1.326	1.314	12.319
-5.8	-3.59324	3.92360	26.583	20.660	1.287	1.268	12.073
-5.6	-3.39664	3.89299	34.351	27.338	1.257	1.230	11.844
-5.4	-3.20166	3.84832	45.036	36.360	1.239	1.201	11.636
-5.2	-3.00882	3.78538	58.749	47.678	1.232	1.180	11.438
-5.0	-2.81865	3.70065	74.797	60.537	1.236	1.165	11.238
-4.8	-2.63150	3.59273	91.389	73.385	1.245	1.155	11.026
-4.6	-2.44742	3.46343	105.958	84.235	1.258	1.149	10.795
-4.4	-2.26605	3.31800	116.009	91.372	1.270	1.145	10.546
-4.2	-2.08669	3.16399	120.085	93.951	1.278	1.142	10.287
-4.0	-1.90844	3.00943	118.096	92.157	1.281	1.141	10.027
-3.8	-1.73036	2.86134	111.140	86.902	1.279	1.140	9.776
-3.6	-1.55160	2.72476	100.993	79.375	1.272	1.141	9.542
-3.4	-1.37151	2.60264	89.298	70.713	1.263	1.142	9.331
-3.2	-1.18967	2.49609	77.389	61.810	1.252	1.144	9.147
-3.0	-1.00583	2.40493	66.134	53.281	1.241	1.148	8.990
-2.8	-.81992	2.32811	56.041	45.487	1.232	1.151	8.861
-2.6	-.63203	2.26412	47.278	38.604	1.225	1.157	8.757
-2.4	-.44228	2.21129	39.864	32.675	1.220	1.163	8.678
-2.2	-.25088	2.16792	33.700	27.669	1.218	1.170	8.620
-2.0	-.05806	2.13241	28.652	23.511	1.219	1.179	8.580
-1.8	.13597	2.10328	24.581	20.114	1.222	1.189	8.558
-1.6	.33096	2.07917	21.357	17.393	1.228	1.200	8.548
-1.4	.52669	2.05883	18.875	15.274	1.236	1.211	8.546
-1.2	.72291	2.04099	17.072	13.710	1.245	1.223	8.549
-1.0	.91936	2.02438	15.910	12.680	1.255	1.233	8.549
-.8	1.11574	2.00754	15.400	12.189	1.263	1.240	8.537
-.6	1.31167	1.98882	15.580	12.266	1.270	1.242	8.506
-.4	1.50672	1.96628	16.502	12.935	1.276	1.240	8.451
-.2	1.70040	1.93788	18.149	14.171	1.281	1.235	8.372
-.0	1.89224	1.90182	20.395	15.840	1.288	1.228	8.270
.2	2.08190	1.85707	22.899	17.669	1.296	1.221	8.150
.4	2.26930	1.80397	25.175	19.283	1.306	1.216	8.016
.6	2.45474	1.74449	26.727	20.339	1.314	1.214	7.874
.8	2.63886	1.68185	27.249	20.643	1.320	1.213	7.730
1.0	2.82257	1.61993	26.702	20.195	1.322	1.216	7.595
1.2	3.00694	1.56267	25.281	19.142	1.321	1.222	7.480
1.4	3.19316	1.51386	23.279	17.696	1.316	1.234	7.397
1.6	3.38255	1.47735		16.058		1.253	7.362
1.8	3.57674	1.45771		14.391		1.282	7.397
2.0	3.77776	1.46113	16.514	12.809	1.289	1.324	7.526

Table 1 Continued

T = 11, 300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.58360	3.97623	12.413	8.264	1.502	1.500	13.276
-6.6	-4.38394	3.97306	13.252	8.998	1.473	1.469	13.131
-6.4	-4.18448	3.96814	14.562	10.157	1.434	1.429	12.943
-6.2	-3.98532	3.96051	16.610	11.956	1.389	1.381	12.715
-6.0	-3.78661	3.94874	19.743	14.705	1.343	1.332	12.465
-5.8	-3.58859	3.93075	24.452	18.804	1.300	1.284	12.213
-5.6	-3.39160	3.90365	31.323	24.718	1.267	1.243	11.976
-5.4	-3.19606	3.86376	40.906	32.854	1.245	1.211	11.761
-5.2	-3.00250	3.80689	53.509	43.324	1.235	1.188	11.559
-5.0	-2.81146	3.72917	68.714	55.627	1.235	1.171	11.359
-4.8	-2.62335	3.62840	85.127	68.462	1.243	1.159	11.150
-4.6	-2.43834	3.50533	100.356	79.939	1.255	1.152	10.923
-4.4	-2.25619	3.36420	111.845	88.220	1.268	1.147	10.678
-4.2	-2.07629	3.21202	117.728	92.168	1.277	1.144	10.419
-4.0	-1.89779	3.05686	117.552	91.672	1.282	1.142	10.157
-3.8	-1.71975	2.90617	112.060	87.442	1.282	1.142	9.901
-3.6	-1.54127	2.76566	102.861	80.616	1.276	1.142	9.660
-3.4	-1.36165	2.63889	91.675	72.343	1.267	1.143	9.440
-3.2	-1.18038	2.52751	79.918	63.590	1.257	1.145	9.247
-3.0	-.99716	2.43167	68.579	55.043	1.246	1.148	9.081
-2.8	-.81190	2.35055	58.245	47.131	1.236	1.151	8.942
-2.6	-.62461	2.28275	49.222	40.077	1.228	1.156	8.831
-2.4	-.43542	2.22664	41.514	33.957	1.223	1.162	8.743
-2.2	-.24451	2.18049	35.076	28.760	1.220	1.169	8.678
-2.0	-.05211	2.14268	29.784	24.422	1.220	1.177	8.634
-1.8	.14156	2.11168	25.496	20.861	1.222	1.187	8.606
-1.6	.33627	2.08610	22.081	17.989	1.227	1.198	8.593
-1.4	.53177	2.06463	19.429	15.735	1.235	1.209	8.589
-1.2	.72784	2.04601	17.462	14.042	1.244	1.221	8.590
-1.0	.92420	2.02895	16.143	12.881	1.253	1.231	8.590
-.8	1.12057	2.01204	15.468	12.254	1.262	1.239	8.581
-.6	1.31658	1.99364	15.469	12.182	1.270	1.242	8.555
-.4	1.51181	1.97188	16.192	12.692	1.276	1.242	8.506
-.2	1.70578	1.94469	17.648	13.775	1.281	1.237	8.432
-.0	1.89801	1.91021	19.728	15.322	1.288	1.231	8.334
.2	2.08812	1.86717	22.152	17.092	1.296	1.224	8.218
.4	2.27596	1.81565	24.457	18.732	1.306	1.219	8.087
.6	2.46178	1.75729	26.145	19.889	1.315	1.216	7.945
.8	2.64614	1.69516	26.862	20.331	1.321	1.215	7.801
1.0	2.82995	1.63313	26.519	20.026	1.324	1.217	7.665
1.2	3.01428	1.57524	25.267	19.095	1.323	1.224	7.547
1.4	3.20033	1.52543	23.383	17.737	1.318	1.235	7.461
1.6	3.38947	1.48777		16.153		1.253	7.423
1.8	3.58334	1.46693		14.514		1.282	7.454
2.0	3.78399	1.46914	16.717	12.945	1.291	1.323	7.579

Table 1 Continued

T = 11, 400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.57969	3.97693	12.236	8.102	1.510	1.508	13.371
-6.6	-4.38000	3.97415	12.934	8.724	1.483	1.480	13.241
-6.4	-4.18047	3.96983	14.060	9.717	1.447	1.443	13.065
-6.2	-3.98120	3.96314	15.822	11.268	1.404	1.398	12.851
-6.0	-3.78234	3.95279	18.537	13.649	1.358	1.349	12.606
-5.8	-3.58408	3.93694	22.645	17.232	1.314	1.300	12.352
-5.6	-3.38674	3.91294	28.703	22.455	1.278	1.257	12.109
-5.4	-3.19071	3.87736	37.281	29.768	1.252	1.222	11.886
-5.2	-2.99649	3.82607	48.779	39.386	1.238	1.196	11.678
-5.0	-2.80463	3.75502	63.071	51.036	1.236	1.177	11.478
-4.8	-2.61560	3.66134	79.074	63.676	1.242	1.164	11.271
-4.6	-2.42965	3.54478	94.703	75.581	1.253	1.155	11.049
-4.4	-2.24667	3.40855	107.381	84.844	1.266	1.150	10.808
-4.2	-2.06617	3.25893	114.975	90.082	1.276	1.146	10.551
-4.0	-1.88734	3.10388	116.574	90.883	1.283	1.144	10.287
-3.8	-1.70925	2.95118	112.633	87.741	1.284	1.143	10.027
-3.6	-1.53098	2.80714	104.502	81.683	1.279	1.143	9.779
-3.4	-1.35176	2.67596	93.920	73.869	1.271	1.144	9.552
-3.2	-1.17103	2.55984	82.383	65.320	1.261	1.145	9.349
-3.0	-.98843	2.45933	71.012	56.796	1.250	1.148	9.173
-2.8	-.80379	2.37385	60.507	48.790	1.240	1.151	9.026
-2.6	-.61710	2.30217	51.203	41.578	1.232	1.156	8.906
-2.4	-.42848	2.24266	43.219	35.275	1.225	1.161	8.811
-2.2	-.23808	2.19364	36.510	29.887	1.222	1.168	8.739
-2.0	-.04611	2.15344	30.967	25.371	1.221	1.176	8.689
-1.8	.14719	2.12048	26.461	21.644	1.223	1.185	8.656
-1.6	.34160	2.09333	22.851	18.624	1.227	1.196	8.638
-1.4	.53687	2.07066	20.030	16.234	1.234	1.207	8.631
-1.2	.73276	2.05118	17.910	14.417	1.242	1.218	8.631
-1.0	.92902	2.03360	16.445	13.139	1.252	1.229	8.631
-.8	1.12536	2.01652	15.623	12.393	1.261	1.237	8.624
-.6	1.32143	1.99836	15.474	12.198	1.269	1.242	8.602
-.4	1.51682	1.97726	16.042	12.583	1.275	1.242	8.558
-.2	1.71106	1.95120	17.345	13.547	1.280	1.239	8.489
-.0	1.90365	1.91820	19.303	15.010	1.286	1.232	8.395
.2	2.09419	1.87687	21.687	16.755	1.294	1.226	8.281
.4	2.28249	1.82695	24.051	18.446	1.304	1.220	8.153
.6	2.46869	1.76981	25.888	19.716	1.313	1.217	8.012
.8	2.65333	1.70832	26.811	20.307	1.320	1.216	7.869
1.0	2.83726	1.64629	26.668	20.143	1.324	1.218	7.732
1.2	3.02157	1.58785	25.572	19.318	1.324	1.224	7.612
1.4	3.20747	1.53713	23.760	18.025	1.318	1.235	7.522
1.6	3.39637	1.49834		16.469		1.253	7.481
1.8	3.58992	1.47628		14.829		1.281	7.509
2.0	3.79022	1.47729	17.108	13.238	1.292	1.322	7.630

Table 1 Continued

T = 11, 500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.57583	3.97754	12.078	7.967	1.516	1.514	13.456
-6.6	-4.37610	3.97508	12.676	8.491	1.493	1.490	13.348
-6.4	-4.17652	3.97128	13.640	9.342	1.460	1.456	13.187
-6.2	-3.97716	3.96540	15.155	10.678	1.419	1.413	12.982
-6.0	-3.77816	3.95630	17.509	12.742	1.374	1.365	12.746
-5.8	-3.57970	3.94231	21.094	15.867	1.329	1.317	12.493
-5.6	-3.38205	3.92105	26.416	20.477	1.290	1.272	12.245
-5.4	-3.18557	3.88932	34.068	27.012	1.261	1.234	12.013
-5.2	-2.99076	3.84316	44.507	35.792	1.243	1.205	11.800
-5.0	-2.79814	3.77840	57.797	46.717	1.237	1.184	11.597
-4.8	-2.60823	3.69165	73.213	59.004	1.241	1.169	11.391
-4.6	-2.42135	3.58178	88.967	71.125	1.251	1.159	11.172
-4.4	-2.23751	3.45092	102.554	81.184	1.263	1.152	10.935
-4.2	-2.05633	3.30456	111.672	87.604	1.275	1.148	10.681
-4.0	-1.87709	3.15034	115.031	89.686	1.283	1.146	10.417
-3.8	-1.69887	2.99623	112.680	87.672	1.285	1.144	10.154
-3.6	-1.52074	2.84910	105.735	82.455	1.282	1.144	9.900
-3.4	-1.34187	2.71379	95.877	75.179	1.275	1.145	9.664
-3.2	-1.16164	2.59306	84.676	66.902	1.266	1.146	9.453
-3.0	-.97962	2.48790	73.357	58.452	1.255	1.148	9.269
-2.8	-.79559	2.39804	62.705	50.392	1.244	1.151	9.112
-2.6	-.60952	2.32238	53.169	43.048	1.235	1.156	8.983
-2.4	-.42146	2.25939	44.926	36.576	1.228	1.161	8.881
-2.2	-.23157	2.20740	37.950	31.010	1.224	1.167	8.802
-2.0	-.04005	2.16469	32.164	26.319	1.222	1.175	8.745
-1.8	.15287	2.12969	27.434	22.431	1.223	1.184	8.707
-1.6	.34696	2.10089	23.630	19.262	1.227	1.194	8.684
-1.4	.54198	2.07694	20.637	16.738	1.233	1.205	8.674
-1.2	.73769	2.05652	18.359	14.794	1.241	1.216	8.672
-1.0	.93383	2.03835	16.742	13.392	1.250	1.227	8.673
-.8	1.13012	2.02103	15.767	12.519	1.260	1.236	8.667
-.6	1.32623	2.00300	15.451	12.187	1.268	1.242	8.649
-.4	1.52176	1.98248	15.837	12.424	1.275	1.243	8.609
-.2	1.71624	1.95742	16.949	13.238	1.280	1.241	8.545
-.0	1.90917	1.92585	18.740	14.568	1.286	1.235	8.457
.2	2.10013	1.88617	21.004	16.231	1.294	1.228	8.347
.4	2.28887	1.83789	23.353	17.913	1.304	1.223	8.221
.6	2.47547	1.78206	25.285	19.252	1.313	1.219	8.083
.8	2.66041	1.72132	26.376	19.965	1.321	1.218	7.940
1.0	2.84450	1.65941	26.433	19.939	1.326	1.220	7.802
1.2	3.02882	1.60053	25.511	19.242	1.326	1.225	7.679
1.4	3.21459	1.54896	23.823	18.046	1.320	1.236	7.587
1.6	3.40325	1.50906		16.556		1.254	7.543
1.8	3.59652	1.48582		14.953		1.281	7.566
2.0	3.79646	1.48563	17.322	13.379	1.295	1.321	7.684

Table 1 Continued

T = 11, 600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.57202	3.97807	11.957	7.862	1.521	1.519	13.540
-6.6	-4.37225	3.97589	12.461	8.302	1.501	1.498	13.442
-6.4	-4.17262	3.97253	13.284	9.028	1.471	1.468	13.302
-6.2	-3.97319	3.96735	14.598	10.179	1.434	1.428	13.110
-6.0	-3.77407	3.95932	16.635	11.968	1.390	1.382	12.884
-5.8	-3.57542	3.94696	19.756	14.695	1.344	1.333	12.633
-5.6	-3.37750	3.92812	24.433	18.752	1.303	1.287	12.381
-5.4	-3.18064	3.89982	31.225	24.582	1.270	1.246	12.140
-5.2	-2.98529	3.85832	40.671	32.554	1.249	1.214	11.921
-5.0	-2.79197	3.79942	52.959	42.722	1.240	1.191	11.715
-4.8	-2.60122	3.71938	67.652	54.535	1.241	1.174	11.510
-4.6	-2.41343	3.61625	83.297	66.689	1.249	1.163	11.294
-4.4	-2.22872	3.49116	97.557	77.363	1.261	1.155	11.060
-4.2	-2.04682	3.34867	108.003	84.849	1.273	1.150	10.809
-4.0	-1.86709	3.19597	113.033	88.169	1.282	1.147	10.546
-3.8	-1.68866	3.04109	112.301	87.304	1.286	1.146	10.280
-3.6	-1.51059	2.89136	106.639	82.996	1.285	1.145	10.021
-3.4	-1.33200	2.75223	97.620	76.326	1.279	1.145	9.779
-3.2	-1.15222	2.62706	86.850	68.383	1.270	1.147	9.559
-3.0	-.97075	2.51731	75.632	60.055	1.259	1.149	9.365
-2.8	-.78733	2.42304	64.894	51.972	1.249	1.152	9.200
-2.6	-.60185	2.34335	55.159	44.518	1.239	1.155	9.062
-2.4	-.41436	2.27680	46.652	37.890	1.231	1.160	8.952
-2.2	-.22500	2.22173	39.424	32.153	1.226	1.166	8.866
-2.0	-.03394	2.17644	33.395	27.290	1.224	1.174	8.803
-1.8	.15858	2.13930	28.441	23.239	1.224	1.182	8.758
-1.6	.35234	2.10878	24.443	19.924	1.227	1.192	8.731
-1.4	.54710	2.08346	21.275	17.264	1.232	1.203	8.718
-1.2	.74261	2.06204	18.838	15.195	1.240	1.214	8.714
-1.0	.93862	2.04318	17.072	13.671	1.249	1.225	8.713
-.8	1.13485	2.02553	15.947	12.674	1.258	1.235	8.709
-.6	1.33098	2.00754	15.474	12.213	1.267	1.241	8.694
-.4	1.52661	1.98747	15.683	12.309	1.274	1.244	8.659
-.2	1.72130	1.96331	16.616	12.978	1.280	1.242	8.601
-.0	1.91455	1.93302	18.240	14.176	1.287	1.237	8.518
.2	2.10590	1.89491	20.376	15.750	1.294	1.231	8.412
.4	2.29507	1.84824	22.696	17.412	1.303	1.225	8.288
.6	2.48208	1.79377	24.702	18.808	1.313	1.221	8.152
.8	2.66733	1.73387	25.945	19.631	1.322	1.220	8.010
1.0	2.85160	1.67220	26.187	19.739	1.327	1.221	7.871
1.2	3.03594	1.61298	25.442	19.166	1.327	1.226	7.746
1.4	3.22162	1.56065	23.874	18.066	1.321	1.237	7.653
1.6	3.41009	1.51975		16.641		1.254	7.604
1.8	3.60306	1.49538		15.075		1.281	7.624
2.0	3.80265	1.49397	17.531	13.520	1.297	1.321	7.737

116

Table 1 Continued

T = 11,700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.56824	3.97853	11.869	7.781	1.525	1.524	13.620
-6.6	-4.36845	3.97659	12.284	8.147	1.508	1.506	13.534
-6.4	-4.16877	3.97362	12.987	8.764	1.482	1.479	13.409
-6.2	-3.96928	3.96904	14.108	9.755	1.446	1.442	13.235
-6.0	-3.77005	3.96194	15.878	11.306	1.404	1.398	13.017
-5.8	-3.57125	3.95101	18.601	13.687	1.359	1.349	12.770
-5.6	-3.37309	3.93429	22.715	17.257	1.316	1.301	12.516
-5.4	-3.17589	3.90906	28.751	22.442	1.281	1.259	12.271
-5.2	-2.98005	3.87178	37.247	29.649	1.256	1.225	12.044
-5.0	-2.78609	3.81832	48.552	39.052	1.243	1.199	11.833
-4.8	-2.59454	3.74469	62.428	50.303	1.241	1.180	11.627
-4.6	-2.40587	3.64828	77.751	62.327	1.247	1.167	11.413
-4.4	-2.22028	3.52925	92.436	73.433	1.259	1.158	11.184
-4.2	-2.03761	3.39118	104.037	81.842	1.271	1.153	10.937
-4.0	-1.85733	3.24066	110.617	86.335	1.281	1.149	10.675
-3.8	-1.67861	3.08566	111.494	86.631	1.287	1.147	10.407
-3.6	-1.50053	2.93383	107.200	83.278	1.287	1.146	10.144
-3.4	-1.32216	2.79123	99.094	77.277	1.282	1.146	9.894
-3.2	-1.14278	2.66182	88.833	69.729	1.274	1.147	9.666
-3.0	-.96183	2.54757	77.819	61.577	1.264	1.149	9.464
-2.8	-.77899	2.44889	67.044	53.507	1.253	1.152	9.289
-2.6	-.59411	2.36510	57.137	45.967	1.243	1.155	9.143
-2.4	-.40720	2.29491	48.395	39.201	1.235	1.160	9.024
-2.2	-.21836	2.23668	40.920	33.303	1.229	1.166	8.932
-2.0	-.02777	2.18871	34.646	28.272	1.225	1.173	8.861
-1.8	.16434	2.14934	29.476	24.063	1.225	1.181	8.812
-1.6	.35776	2.11701	25.282	20.602	1.227	1.190	8.780
-1.4	.55224	2.09026	21.938	17.810	1.232	1.201	8.763
-1.2	.74754	2.06775	19.351	15.618	1.239	1.212	8.756
-1.0	.94340	2.04815	17.439	13.979	1.247	1.223	8.754
-.8	1.13955	2.03008	16.173	12.868	1.257	1.233	8.751
-.6	1.33568	2.01205	15.554	12.288	1.266	1.240	8.738
-.4	1.53140	1.99233	15.612	12.259	1.274	1.244	8.708
-.2	1.72628	1.96897	16.383	12.801	1.280	1.243	8.654
-.0	1.91982	1.93988	17.852	13.883	1.286	1.239	8.575
.2	2.11155	1.90330	19.887	15.378	1.293	1.233	8.473
.4	2.30114	1.85824	22.172	17.023	1.302	1.227	8.353
.6	2.48856	1.80517	24.244	18.472	1.312	1.223	8.219
.8	2.67414	1.74622	25.638	19.405	1.321	1.221	8.078
1.0	2.85861	1.68489	26.062	19.643	1.327	1.222	7.938
1.2	3.04301	1.62545	25.496	19.189	1.329	1.228	7.813
1.4	3.22862	1.57244	24.045	18.181	1.323	1.238	7.716
1.6	3.41689	1.53056		16.812		1.254	7.664
1.8	3.60958	1.50503	20.010	15.276	1.310	1.281	7.681
2.0	3.80884	1.50246	17.822	13.727	1.298	1.320	7.790

Table 1 Continued

T = 11, 800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.56450	3.97895	11.797	7.723	1.528	1.527	13.693
-6.6	-4.36469	3.97721	12.139	8.020	1.514	1.512	13.624
-6.4	-4.16497	3.97457	12.732	8.543	1.490	1.488	13.509
-6.2	-3.96542	3.97050	13.707	9.394	1.459	1.456	13.354
-6.0	-3.76611	3.96422	15.233	10.741	1.418	1.413	13.147
-5.8	-3.56717	3.95453	17.613	12.815	1.374	1.365	12.907
-5.6	-3.36880	3.93967	21.224	15.952	1.331	1.317	12.652
-5.4	-3.17129	3.91716	26.565	20.556	1.292	1.273	12.402
-5.2	-2.97502	3.88369	34.192	27.046	1.264	1.235	12.167
-5.0	-2.78047	3.83524	44.522	35.683	1.248	1.207	11.951
-4.8	-2.58819	3.76768	57.517	46.304	1.242	1.186	11.742
-4.6	-2.39867	3.67788	72.359	58.057	1.246	1.172	11.531
-4.4	-2.21220	3.56508	87.264	69.419	1.257	1.162	11.306
-4.2	-2.02873	3.43190	99.757	78.597	1.269	1.156	11.062
-4.0	-1.84784	3.28418	107.760	84.185	1.280	1.151	10.801
-3.8	-1.66876	3.12969	110.210	85.629	1.287	1.149	10.533
-3.6	-1.49059	2.97630	107.338	83.265	1.289	1.148	10.266
-3.4	-1.31238	2.83063	100.262	78.001	1.285	1.147	10.011
-3.2	-1.13335	2.69722	90.622	70.913	1.278	1.148	9.775
-3.0	-.95288	2.57858	79.870	62.986	1.268	1.150	9.564
-2.8	-.77060	2.47551	69.121	54.975	1.257	1.152	9.381
-2.6	-.58630	2.38760	59.080	47.382	1.247	1.155	9.226
-2.4	-.39996	2.31369	50.142	40.496	1.238	1.160	9.100
-2.2	-.21165	2.25222	42.416	34.444	1.231	1.165	8.999
-2.0	-.02155	2.20148	35.908	29.258	1.227	1.172	8.922
-1.8	.17015	2.15980	30.527	24.896	1.226	1.180	8.867
-1.6	.36321	2.12558	26.137	21.290	1.228	1.189	8.830
-1.4	.55740	2.09733	22.625	18.365	1.232	1.199	8.809
-1.2	.75247	2.07366	19.878	16.055	1.238	1.210	8.799
-1.0	.94817	2.05323	17.826	14.302	1.246	1.221	8.796
-.8	1.14423	2.03469	16.420	13.079	1.256	1.231	8.793
-.6	1.34034	2.01653	15.657	12.383	1.264	1.239	8.782
-.4	1.53613	1.99707	15.567	12.233	1.273	1.244	8.755
-.2	1.73117	1.97439	16.178	12.647	1.279	1.244	8.706
-.0	1.92497	1.94643	17.496	13.612	1.285	1.241	8.632
.2	2.11706	1.91127	19.414	15.022	1.292	1.235	8.534
.4	2.30707	1.86780	21.650	16.640	1.301	1.229	8.418
.6	2.49489	1.81617	23.784	18.132	1.312	1.225	8.286
.8	2.68082	1.75825	25.313	19.165	1.321	1.223	8.146
1.0	2.86551	1.69738	25.919	19.530	1.327	1.224	8.006
1.2	3.05000	1.63781	25.527	19.200	1.330	1.229	7.881
1.4	3.23555	1.58420	24.228	18.289	1.325	1.238	7.780
1.6	3.42364	1.54139		16.984		1.255	7.727
1.8	3.61608	1.51479	20.310	15.479	1.312	1.282	7.740
2.0	3.81501	1.51104	18.123	13.943	1.300	1.320	7.845

Table 1 Continued

T = 11,900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.56079	3.97933	11.756	7.691	1.529	1.527	13.751
-6.6	-4.36096	3.97775	12.023	7.926	1.517	1.516	13.699
-6.4	-4.16122	3.97539	12.531	8.365	1.498	1.495	13.597
-6.2	-3.96161	3.97177	13.369	9.096	1.470	1.465	13.457
-6.0	-3.76222	3.96620	14.702	10.263	1.432	1.426	13.268
-5.8	-3.56317	3.95759	16.772	12.077	1.389	1.380	13.038
-5.6	-3.36462	3.94438	19.938	14.838	1.344	1.332	12.785
-5.4	-3.16684	3.92429	24.667	18.927	1.303	1.286	12.531
-5.2	-2.97018	3.89424	31.515	24.763	1.273	1.247	12.292
-5.0	-2.77510	3.85038	40.933	32.672	1.253	1.216	12.068
-4.8	-2.58213	3.78854	53.058	42.637	1.244	1.193	11.858
-4.6	-2.39179	3.70516	67.315	54.030	1.246	1.177	11.647
-4.4	-2.20445	3.59870	82.218	65.503	1.255	1.166	11.425
-4.2	-2.02017	3.47079	95.431	75.316	1.267	1.158	11.185
-4.0	-1.83862	3.32645	104.720	81.901	1.279	1.153	10.927
-3.8	-1.65912	3.17309	108.694	84.471	1.287	1.150	10.658
-3.6	-1.48078	3.01870	107.244	83.127	1.290	1.149	10.389
-3.4	-1.30266	2.87037	101.293	78.642	1.288	1.148	10.128
-3.2	-1.12392	2.73323	92.349	72.062	1.282	1.149	9.885
-3.0	-.94390	2.61033	81.926	64.401	1.272	1.150	9.666
-2.8	-.76215	2.50291	71.241	56.475	1.261	1.152	9.474
-2.6	-.57843	2.41085	61.096	48.842	1.251	1.155	9.310
-2.4	-.39265	2.33317	51.950	41.843	1.242	1.160	9.175
-2.2	-.20489	2.26837	43.991	35.645	1.234	1.165	9.067
-2.0	-.01527	2.21479	37.246	30.296	1.229	1.171	8.983
-1.8	.17600	2.17071	31.636	25.775	1.227	1.178	8.922
-1.6	.36870	2.13452	27.044	22.020	1.228	1.187	8.880
-1.4	.56259	2.10468	23.352	18.959	1.232	1.197	8.855
-1.2	.75742	2.07979	20.444	16.522	1.237	1.208	8.842
-1.0	.95295	2.05848	18.244	14.652	1.245	1.219	8.837
-.8	1.14890	2.03937	16.696	13.313	1.254	1.230	8.833
-.6	1.34497	2.02101	15.788	12.499	1.263	1.238	8.824
-.4	1.54081	2.00173	15.539	12.221	1.271	1.244	8.802
-.2	1.73599	1.97965	15.989	12.501	1.279	1.245	8.757
-.0	1.93004	1.95269	17.141	13.334	1.285	1.242	8.689
.2	2.12246	1.91893	18.911	14.633	1.292	1.237	8.596
.4	2.31287	1.87701	21.063	16.192	1.301	1.231	8.481
.6	2.50111	1.82686	23.199	17.693	1.311	1.227	8.352
.8	2.68739	1.77005	24.829	18.800	1.321	1.225	8.214
1.0	2.87233	1.70974	25.596	19.279	1.328	1.226	8.075
1.2	3.05693	1.65016	25.371	19.066	1.331	1.230	7.947
1.4	3.24244	1.59604	24.229	18.258	1.327	1.240	7.846
1.6	3.43039	1.55235		17.031		1.256	7.789
1.8	3.62259	1.52470	20.469	15.576	1.314	1.282	7.799
2.0	3.82118	1.51977	18.311	14.067	1.302	1.319	7.899

Table 1 Continued

T = 12,000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.55712	3.97968	11.745	7.684	1.529	1.527	13.811
-6.6	-4.35727	3.97824	11.949	7.856	1.521	1.519	13.772
-6.4	-4.15751	3.97612	12.367	8.218	1.505	1.502	13.692
-6.2	-3.95786	3.97289	13.077	8.844	1.479	1.475	13.560
-6.0	-3.75840	3.96793	14.231	9.854	1.444	1.439	13.386
-5.8	-3.55924	3.96027	16.041	11.437	1.403	1.395	13.168
-5.6	-3.36053	3.94850	18.828	13.860	1.358	1.347	12.920
-5.4	-3.16251	3.93055	23.013	17.480	1.317	1.300	12.664
-5.2	-2.96550	3.90358	29.123	22.709	1.282	1.259	12.418
-5.0	-2.76994	3.86391	37.664	29.909	1.259	1.225	12.189
-4.8	-2.57633	3.80741	48.888	39.184	1.248	1.200	11.975
-4.6	-2.38523	3.73023	62.448	50.104	1.246	1.182	11.762
-4.4	-2.19704	3.63012	77.103	61.533	1.253	1.170	11.542
-4.2	-2.01193	3.50778	90.838	71.801	1.265	1.161	11.306
-4.0	-1.82968	3.36735	101.234	79.271	1.277	1.156	11.051
-3.8	-1.64969	3.21572	106.660	82.916	1.286	1.152	10.783
-3.6	-1.47112	3.06089	106.640	82.604	1.291	1.150	10.512
-3.4	-1.29302	2.91034	101.876	78.948	1.290	1.150	10.246
-3.2	-1.11452	2.76976	93.711	72.943	1.285	1.150	9.996
-3.0	-.93490	2.64278	83.728	65.615	1.276	1.151	9.769
-2.8	-.75366	2.53107	73.184	57.826	1.266	1.153	9.568
-2.6	-.57049	2.43486	62.996	50.197	1.255	1.156	9.397
-2.4	-.38528	2.35334	53.693	43.117	1.245	1.159	9.253
-2.2	-.19805	2.28514	45.530	36.794	1.237	1.164	9.138
-2.0	-.00893	2.22862	38.557	31.300	1.232	1.170	9.047
-1.8	.18190	2.18207	32.731	26.631	1.229	1.178	8.980
-1.6	.37422	2.14383	27.944	22.736	1.229	1.186	8.932
-1.4	.56780	2.11234	24.072	19.545	1.232	1.196	8.902
-1.2	.76238	2.08614	21.014	16.987	1.237	1.206	8.886
-1.0	.95772	2.06387	18.669	15.003	1.244	1.217	8.878
-.8	1.15354	2.04413	16.983	13.554	1.253	1.228	8.874
-.6	1.34956	2.02548	15.936	12.627	1.262	1.237	8.867
-.4	1.54543	2.00628	15.538	12.226	1.271	1.243	8.847
-.2	1.74073	1.98469	15.822	12.377	1.278	1.245	8.807
-.0	1.93499	1.95864	16.808	13.079	1.285	1.244	8.743
.2	2.12773	1.92615	18.437	14.265	1.292	1.239	8.655
.4	2.31851	1.88571	20.496	15.756	1.301	1.234	8.545
.6	2.50715	1.83703	22.609	17.254	1.310	1.229	8.418
.8	2.69379	1.78138	24.335	18.422	1.321	1.227	8.281
1.0	2.87900	1.72172	25.250	19.006	1.329	1.227	8.143
1.2	3.06372	1.66222	25.190	18.912	1.332	1.231	8.014
1.4	3.24923	1.60767	24.190	18.208	1.329	1.241	7.912
1.6	3.43705	1.56320		17.061		1.257	7.851
1.8	3.62900	1.53451	20.617	15.660	1.316	1.282	7.857
2.0	3.82729	1.52846	18.488	14.182	1.304	1.319	7.953

Table 1 Continued

T = 12, 100

Log ρ	Log p	Z	C_p/R	C_V/R	γ	$γ_E$	a/a_a
-6.8	-4.55348	3.98001	11.761	7.695	1.528	1.527	13.867
-6.6	-4.35362	3.97868	11.896	7.808	1.524	1.522	13.842
-6.4	-4.15383	3.97676	12.229	8.100	1.510	1.509	13.778
-6.2	-3.95415	3.97387	12.835	8.630	1.487	1.485	13.663
-6.0	-3.75463	3.96944	13.830	9.504	1.455	1.451	13.502
-5.8	-3.55538	3.96261	15.412	10.884	1.416	1.410	13.294
-5.6	-3.35653	3.95211	17.852	13.012	1.372	1.362	13.052
-5.4	-3.15830	3.93606	21.561	16.216	1.330	1.315	12.797
-5.2	-2.96098	3.91183	27.007	20.892	1.293	1.271	12.544
-5.0	-2.76498	3.87598	34.727	27.424	1.266	1.236	12.310
-4.8	-2.57079	3.82443	45.066	36.013	1.251	1.208	12.090
-4.6	-2.37897	3.75314	57.873	46.394	1.247	1.188	11.877
-4.4	-2.18996	3.65932	72.189	57.646	1.252	1.174	11.659
-4.2	-2.00402	3.54276	86.182	68.231	1.263	1.165	11.425
-4.0	-1.82103	3.40667	97.517	76.459	1.275	1.158	11.174
-3.8	-1.64050	3.25735	104.286	81.116	1.286	1.155	10.908
-3.6	-1.46163	3.10266	105.701	81.831	1.292	1.152	10.635
-3.4	-1.28349	2.95036	102.170	79.049	1.293	1.151	10.365
-3.2	-1.10517	2.80668	94.881	73.670	1.288	1.151	10.109
-3.0	-.92591	2.67580	85.389	66.724	1.280	1.152	9.874
-2.8	-.74514	2.55990	75.062	59.116	1.270	1.153	9.665
-2.6	-.56251	2.45954	64.870	51.522	1.259	1.156	9.485
-2.4	-.37785	2.37416	55.433	44.383	1.249	1.160	9.333
-2.2	-.19116	2.30251	47.071	37.946	1.240	1.164	9.209
-2.0	-.00254	2.24298	39.890	32.314	1.234	1.170	9.112
-1.8	.18785	2.19387	33.855	27.503	1.231	1.177	9.038
-1.6	.37978	2.15350	28.872	23.470	1.230	1.185	8.985
-1.4	.57303	2.12028	24.829	20.150	1.232	1.194	8.951
-1.2	.76735	2.09273	21.610	17.473	1.237	1.204	8.931
-1.0	.96249	2.06943	19.125	15.380	1.243	1.215	8.921
-.8	1.15818	2.04899	17.309	13.826	1.252	1.226	8.916
-.6	1.35413	2.02998	16.131	12.792	1.261	1.236	8.909
-.4	1.55001	2.01079	15.599	12.285	1.270	1.242	8.891
-.2	1.74540	1.98960	15.741	12.321	1.278	1.246	8.855
-.0	1.93986	1.96438	16.584	12.910	1.285	1.245	8.796
.2	2.13289	1.93308	18.081	13.999	1.292	1.241	8.711
.4	2.32405	1.89412	20.063	15.433	1.300	1.236	8.605
.6	2.51308	1.84690	22.174	16.934	1.309	1.231	8.482
.8	2.70009	1.79246	23.976	18.165	1.320	1.228	8.347
1.0	2.88558	1.73355	25.036	18.852	1.328	1.229	8.209
1.2	3.07045	1.67422	25.147	18.873	1.332	1.233	8.080
1.4	3.25598	1.61932	24.322	18.270	1.331	1.241	7.975
1.6	3.44368	1.57413		17.194		1.257	7.913
1.8	3.63541	1.54446	20.884	15.837	1.319	1.282	7.915
2.0	3.83339	1.53728	18.767	14.381	1.305	1.318	8.006

Table 1 Continued

T = 12, 200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.54987	3.98033	11.787	7.733	1.524	1.524	13.911
-6.6	-4.35000	3.97909	11.859	7.784	1.523	1.522	13.900
-6.4	-4.15019	3.97733	12.124	8.011	1.513	1.512	13.850
-6.2	-3.95048	3.97473	12.633	8.455	1.494	1.492	13.755
-6.0	-3.75091	3.97076	13.498	9.208	1.466	1.462	13.607
-5.8	-3.55158	3.96466	14.873	10.412	1.429	1.423	13.414
-5.6	-3.35261	3.95527	17.016	12.283	1.385	1.377	13.181
-5.4	-3.15419	3.94090	20.293	15.120	1.342	1.329	12.927
-5.2	-2.95660	3.91913	25.153	19.299	1.303	1.284	12.671
-5.0	-2.76020	3.88674	32.128	25.215	1.274	1.246	12.430
-4.8	-2.56548	3.83976	41.620	33.134	1.256	1.216	12.205
-4.6	-2.37298	3.77408	53.649	42.947	1.249	1.194	11.991
-4.4	-2.18318	3.68641	67.500	53.926	1.252	1.179	11.773
-4.2	-1.99642	3.57576	81.578	64.688	1.261	1.168	11.543
-4.0	-1.81267	3.44441	93.689	73.556	1.274	1.161	11.295
-3.8	-1.63154	3.29794	101.676	79.152	1.285	1.157	11.031
-3.6	-1.45231	3.14396	104.480	80.881	1.292	1.154	10.757
-3.4	-1.27406	2.99037	102.206	78.990	1.294	1.152	10.485
-3.2	-1.09587	2.84394	95.901	74.282	1.291	1.152	10.223
-3.0	-.91692	2.70939	86.982	67.763	1.284	1.153	9.981
-2.8	-.73659	2.58940	76.904	60.372	1.274	1.154	9.764
-2.6	-.55447	2.48493	66.741	52.839	1.263	1.156	9.574
-2.4	-.37036	2.39566	57.197	45.659	1.253	1.160	9.414
-2.2	-.18421	2.32048	48.654	39.118	1.244	1.164	9.282
-2.0	.00391	2.25787	41.262	33.355	1.237	1.170	9.178
-1.8	.19385	2.20613	35.010	28.401	1.233	1.176	9.098
-1.6	.38538	2.16356	29.834	24.228	1.231	1.184	9.039
-1.4	.57830	2.12854	25.614	20.779	1.233	1.192	8.996
-1.2	.77234	2.09955	22.237	17.983	1.237	1.202	8.972
-1.0	.96727	2.07516	19.606	15.778	1.243	1.214	8.964
-.8	1.16281	2.05397	17.660	14.118	1.251	1.223	8.952
-.6	1.35868	2.03453	16.350	12.980	1.260	1.234	8.950
-.4	1.55454	2.01526	15.683	12.365	1.268	1.242	8.934
-.2	1.75002	1.99438	15.689	12.287	1.277	1.246	8.903
-.0	1.94465	1.96988	16.384	12.761	1.284	1.246	8.847
.2	2.13795	1.93971	17.751	13.751	1.291	1.242	8.768
.4	2.32945	1.90212	19.638	15.119	1.299	1.237	8.665
.6	2.51888	1.85638	21.735	16.609	1.309	1.233	8.544
.8	2.70626	1.80321	23.595	17.895	1.319	1.230	8.411
1.0	2.89204	1.74512	24.802	18.681	1.328	1.230	8.274
1.2	3.07709	1.68606	25.075	18.814	1.333	1.234	8.146
1.4	3.26265	1.63092	24.427	18.315	1.334	1.242	8.038
1.6	3.45025	1.58506		17.318		1.257	7.974
1.8	3.64180	1.55448	21.140	16.010	1.320	1.282	7.973
2.0	3.83947	1.54617	19.045	14.579	1.306	1.317	8.059

Table 1 Continued

T = 12,300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.54629	3.98065	11.854	7.795	1.521	1.520	13.951
-6.6	-4.34642	3.97946	11.854	7.783	1.523	1.522	13.959
-6.4	-4.14659	3.97785	12.046	7.943	1.517	1.515	13.924
-6.2	-3.94685	3.97549	12.473	8.310	1.501	1.498	13.842
-6.0	-3.74724	3.97192	13.210	8.956	1.475	1.472	13.711
-5.8	-3.54784	3.96646	14.411	10.003	1.441	1.435	13.532
-5.6	-3.34876	3.95805	16.298	11.647	1.399	1.392	13.311
-5.4	-3.15018	3.94517	19.182	14.154	1.355	1.344	13.058
-5.2	-2.95234	3.92559	23.516	17.881	1.315	1.298	12.801
-5.0	-2.75559	3.89632	29.786	23.219	1.283	1.258	12.554
-4.8	-2.56038	3.85355	38.459	30.480	1.262	1.225	12.323
-4.6	-2.36724	3.79313	49.687	39.689	1.252	1.201	12.105
-4.4	-2.17670	3.71145	62.969	50.299	1.252	1.184	11.887
-4.2	-1.98912	3.60676	76.962	61.099	1.260	1.172	11.659
-4.0	-1.80460	3.48046	89.615	70.464	1.272	1.164	11.414
-3.8	-1.62284	3.33732	98.690	76.909	1.283	1.159	11.152
-3.6	-1.44319	3.18458	102.844	79.625	1.292	1.156	10.879
-3.4	-1.26477	3.03022	101.851	78.643	1.295	1.154	10.604
-3.2	-1.08663	2.88142	96.557	74.648	1.293	1.153	10.337
-3.0	-.90794	2.74345	88.301	68.611	1.287	1.153	10.088
-2.8	-.72802	2.61951	78.565	61.489	1.278	1.155	9.863
-2.6	-.54640	2.51097	68.500	54.060	1.267	1.157	9.666
-2.4	-.36282	2.41780	58.897	46.868	1.257	1.160	9.497
-2.2	-.17720	2.33906	50.199	40.247	1.247	1.164	9.358
-2.0	.01042	2.27330	42.611	34.368	1.240	1.169	9.246
-1.8	.19989	2.21885	36.164	29.284	1.235	1.175	9.158
-1.6	.39102	2.17402	30.794	24.980	1.233	1.183	9.095
-1.4	.58364	2.13738	26.398	21.404	1.233	1.191	9.050
-1.2	.77740	2.10687	22.867	18.490	1.237	1.201	9.022
-1.0	.97205	2.08109	20.099	16.176	1.242	1.212	9.006
-.8	1.16744	2.05913	18.014	14.413	1.250	1.223	8.999
-.6	1.36320	2.03914	16.577	13.171	1.259	1.233	8.991
-.4	1.55905	2.01972	15.777	12.446	1.268	1.241	8.979
-.2	1.75459	1.99907	15.632	12.253	1.276	1.246	8.950
-.0	1.94937	1.97522	16.178	12.605	1.283	1.246	8.899
.2	2.14292	1.94608	17.397	13.477	1.291	1.244	8.824
.4	2.33476	1.90986	19.168	14.757	1.299	1.239	8.726
.6	2.52457	1.86558	21.206	16.209	1.308	1.235	8.607
.8	2.71233	1.81371	23.097	17.518	1.318	1.232	8.477
1.0	2.89841	1.75652	24.406	18.379	1.328	1.231	8.341
1.2	3.08366	1.69784	24.828	18.618	1.334	1.235	8.212
1.4	3.26927	1.64253	24.324	18.223	1.335	1.243	8.103
1.6	3.45681	1.59608		17.311		1.258	8.037
1.8	3.64815	1.56457	21.249	16.064	1.323	1.282	8.032
2.0	3.84554	1.55518	19.195	14.676	1.308	1.316	8.113

Table 1 Continued

T = 12,400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.54274	3.98097	11.960	7.888	1.516	1.515	13.983
-6.6	-4.34286	3.97983	11.879	7.807	1.522	1.521	14.010
-6.4	-4.14302	3.97832	12.000	7.905	1.518	1.516	13.986
-6.2	-3.94326	3.97617	12.341	8.198	1.505	1.504	13.923
-6.0	-3.74361	3.97295	12.972	8.746	1.483	1.480	13.808
-5.8	-3.54415	3.96804	14.016	9.657	1.451	1.447	13.643
-5.6	-3.34497	3.96050	15.672	11.100	1.412	1.405	13.431
-5.4	-3.14625	3.94893	18.230	13.318	1.369	1.358	13.188
-5.2	-2.94819	3.93132	22.083	16.641	1.327	1.311	12.930
-5.0	-2.75112	3.90485	27.717	21.453	1.292	1.269	12.677
-4.8	-2.55547	3.86594	35.623	28.100	1.268	1.235	12.440
-4.6	-2.36175	3.81045	46.051	36.694	1.255	1.208	12.217
-4.4	-2.17049	3.73451	58.725	46.870	1.253	1.189	12.000
-4.2	-1.98213	3.63578	72.490	57.604	1.258	1.176	11.774
-4.0	-1.79683	3.51476	85.487	67.349	1.269	1.167	11.532
-3.8	-1.61440	3.37540	95.564	74.548	1.282	1.161	11.273
-3.6	-1.43427	3.22442	100.967	78.203	1.291	1.157	11.000
-3.4	-1.25561	3.06980	101.265	78.136	1.296	1.155	10.724
-3.2	-1.07749	2.91903	97.011	74.889	1.295	1.154	10.452
-3.0	-.89901	2.77791	89.505	69.374	1.290	1.154	10.196
-2.8	-.71945	2.65018	80.162	62.558	1.281	1.155	9.964
-2.6	-.53829	2.53764	70.246	55.260	1.271	1.157	9.758
-2.4	-.35523	2.44056	60.601	48.078	1.260	1.160	9.581
-2.2	-.17014	2.35822	51.768	41.392	1.251	1.164	9.433
-2.0	.01697	2.28925	43.989	35.401	1.243	1.169	9.313
-1.8	.20598	2.23203	37.351	30.189	1.237	1.175	9.220
-1.6	.39670	2.18484	31.785	25.754	1.234	1.182	9.151
-1.4	.58891	2.14601	27.214	22.050	1.234	1.191	9.105
-1.2	.78237	2.11396	23.524	19.019	1.237	1.201	9.073
-1.0	.97684	2.08720	20.610	16.595	1.242	1.210	9.050
-.8	1.17205	2.06429	18.392	14.726	1.249	1.221	9.039
-.6	1.36771	2.04379	16.827	13.380	1.258	1.232	9.034
-.4	1.56352	2.02415	15.894	12.550	1.267	1.240	9.021
-.2	1.75910	2.00365	15.609	12.242	1.275	1.245	8.995
-.0	1.95401	1.98034	16.005	12.474	1.283	1.247	8.950
.2	2.14779	1.95215	17.073	13.229	1.291	1.245	8.879
.4	2.33994	1.91718	18.722	14.414	1.299	1.241	8.785
.6	2.53011	1.87430	20.697	15.823	1.308	1.237	8.670
.8	2.71824	1.82374	22.599	17.145	1.318	1.234	8.541
1.0	2.90464	1.76751	23.998	18.075	1.328	1.233	8.407
1.2	3.09009	1.70928	24.570	18.414	1.334	1.236	8.277
1.4	3.27578	1.65389	24.220	18.124	1.336	1.244	8.169
1.6	3.46327	1.60692		17.301		1.259	8.099
1.8	3.65445	1.57458	21.362	16.122	1.325	1.282	8.092
2.0	3.85155	1.56413	19.362	14.779	1.310	1.316	8.168

Table 1 Continued

T = 12,500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.53921	3.98132	12.092	8.018	1.508	1.507	14.006
-6.6	-4.33933	3.98018	11.934	7.860	1.518	1.517	14.050
-6.4	-4.13949	3.97876	11.979	7.891	1.518	1.516	14.043
-6.2	-3.93970	3.97678	12.238	8.114	1.508	1.507	13.996
-6.0	-3.74002	3.97387	12.773	8.575	1.490	1.487	13.898
-5.8	-3.54051	3.96944	13.674	9.363	1.460	1.457	13.748
-5.6	-3.34125	3.96266	15.130	10.627	1.424	1.417	13.548
-5.4	-3.14239	3.95225	17.392	12.589	1.382	1.372	13.313
-5.2	-2.94414	3.93638	20.825	15.549	1.339	1.325	13.058
-5.0	-2.74679	3.91246	25.885	19.879	1.302	1.281	12.799
-4.8	-2.55073	3.87706	33.073	25.941	1.275	1.244	12.557
-4.6	-2.35647	3.82616	42.715	33.928	1.259	1.216	12.331
-4.4	-2.16454	3.75572	54.706	43.622	1.254	1.195	12.111
-4.2	-1.97541	3.66288	68.162	54.178	1.258	1.180	11.887
-4.0	-1.78934	3.54732	81.363	64.177	1.268	1.170	11.648
-3.8	-1.60621	3.41211	92.220	72.027	1.280	1.164	11.392
-3.6	-1.42557	3.26340	98.795	76.568	1.290	1.159	11.120
-3.4	-1.24661	3.10900	100.349	77.407	1.296	1.157	10.842
-3.2	-1.06843	2.95668	97.229	74.938	1.297	1.156	10.568
-3.0	-.89011	2.81272	90.520	69.987	1.293	1.155	10.306
-2.8	-.71088	2.68138	81.629	63.521	1.285	1.156	10.066
-2.6	-.53016	2.56491	71.891	56.393	1.275	1.158	9.851
-2.4	-.34760	2.46395	62.259	49.250	1.264	1.160	9.666
-2.2	-.16303	2.37797	53.322	42.515	1.254	1.164	9.511
-2.0	.02357	2.30574	45.381	36.429	1.246	1.168	9.384
-1.8	.21211	2.24568	38.541	31.097	1.239	1.174	9.283
-1.6	.40241	2.19607	32.794	26.534	1.236	1.181	9.207
-1.4	.59426	2.15524	28.045	22.709	1.235	1.189	9.153
-1.2	.78742	2.12156	24.202	19.563	1.237	1.199	9.117
-1.0	.98164	2.09352	21.146	17.032	1.242	1.209	9.094
-.8	1.17666	2.06966	18.805	15.064	1.248	1.219	9.082
-.6	1.37221	2.04853	17.115	13.623	1.256	1.230	9.074
-.4	1.56796	2.02860	16.062	12.695	1.265	1.239	9.062
-.2	1.76357	2.00818	15.655	12.288	1.274	1.245	9.039
-.0	1.95860	1.98533	15.920	12.418	1.282	1.248	8.998
.2	2.15258	1.95800	16.865	13.079	1.289	1.246	8.931
.4	2.34503	1.92424	18.411	14.189	1.298	1.243	8.840
.6	2.53556	1.88276	20.340	15.564	1.307	1.239	8.730
.8	2.72405	1.83354	22.269	16.912	1.317	1.235	8.604
1.0	2.91078	1.77834	23.764	17.915	1.326	1.234	8.470
1.2	3.09645	1.72064	24.482	18.355	1.334	1.237	8.342
1.4	3.28225	1.66526	24.297	18.164	1.338	1.245	8.232
1.6	3.46970	1.61784		17.423		1.259	8.160
1.8	3.66072	1.58472	21.613	16.300	1.326	1.282	8.149
2.0	3.85756	1.57323	19.646	14.991	1.311	1.314	8.221

Table 1 · Continued

T = 12, 600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.53571	3.98170	12.267	8.182	1.499	1.498	14.018
-6.6	-4.33583	3.98054	12.012	7.939	1.513	1.512	14.081
-6.4	-4.13598	3.97918	11.979	7.898	1.517	1.515	14.096
-6.2	-3.93618	3.97734	12.167	8.052	1.511	1.509	14.063
-6.0	-3.73647	3.97468	12.610	8.432	1.495	1.492	13.980
-5.8	-3.53691	3.97068	13.391	9.111	1.470	1.466	13.848
-5.6	-3.33758	3.96456	14.660	10.218	1.435	1.429	13.663
-5.4	-3.13861	3.95519	16.663	11.952	1.394	1.385	13.435
-5.2	-2.94018	3.94088	19.712	14.589	1.351	1.338	13.183
-5.0	-2.74258	3.91923	24.261	18.478	1.313	1.294	12.925
-4.8	-2.54616	3.88704	30.774	23.992	1.283	1.255	12.677
-4.6	-2.35140	3.84040	39.666	31.384	1.264	1.224	12.444
-4.4	-2.15884	3.77517	50.949	40.561	1.256	1.201	12.222
-4.2	-1.96897	3.68809	63.977	50.858	1.258	1.185	11.999
-4.0	-1.78213	3.57808	77.246	60.989	1.267	1.174	11.763
-3.8	-1.59829	3.44735	88.700	69.387	1.278	1.166	11.509
-3.6	-1.41708	3.30138	96.391	74.746	1.290	1.161	11.239
-3.4	-1.23778	3.14773	99.160	76.483	1.297	1.158	10.960
-3.2	-1.05948	2.99427	97.152	74.810	1.299	1.157	10.683
-3.0	-.88127	2.84778	91.308	70.463	1.296	1.156	10.416
-2.8	-.70232	2.71303	82.965	64.388	1.289	1.157	10.169
-2.6	-.52202	2.59275	73.479	57.465	1.279	1.158	9.947
-2.4	-.33994	2.48793	63.890	50.387	1.268	1.161	9.754
-2.2	-.15587	2.39829	54.870	43.623	1.258	1.164	9.590
-2.0	.03023	2.32275	46.777	37.452	1.249	1.168	9.456
-1.8	.21829	2.25978	39.756	32.008	1.242	1.174	9.349
-1.6	.40816	2.20770	33.821	27.325	1.238	1.180	9.266
-1.4	.59964	2.16480	28.906	23.377	1.236	1.188	9.206
-1.2	.79249	2.12942	24.896	20.115	1.238	1.197	9.165
-1.0	.98645	2.10004	21.700	17.478	1.242	1.207	9.139
-.8	1.18128	2.07517	19.224	15.408	1.248	1.218	9.125
-.6	1.37669	2.05336	17.411	13.868	1.255	1.228	9.114
-.4	1.57238	2.03308	16.231	12.838	1.264	1.237	9.104
-.2	1.76799	2.01265	15.689	12.324	1.273	1.244	9.083
-.0	1.96312	1.99019	15.810	12.339	1.281	1.248	9.044
.2	2.15729	1.96364	16.610	12.884	1.289	1.247	8.984
.4	2.35001	1.93101	18.026	13.895	1.297	1.244	8.897
.6	2.54089	1.89086	19.865	15.206	1.306	1.240	8.790
.8	2.72975	1.84299	21.781	16.542	1.317	1.237	8.668
1.0	2.91680	1.78886	23.340	17.593	1.327	1.236	8.536
1.2	3.10272	1.73177	24.169	18.117	1.334	1.239	8.408
1.4	3.28863	1.67649	24.126	18.024	1.339	1.246	8.298
1.6	3.47606	1.62869		17.373		1.261	8.224
1.8	3.66694	1.59482	21.674	16.322	1.328	1.283	8.211
2.0	3.86352	1.58233	19.766	15.063	1.312	1.314	8.277

Table 1 Continued

T = 12,700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.53223	3.98211	12.491	8.393	1.488	1.487	14.025
-6.6	-4.33236	3.98091	12.126	8.050	1.506	1.505	14.107
-6.4	-4.13251	3.97958	12.014	7.934	1.514	1.513	14.141
-6.2	-3.93269	3.97786	12.129	8.019	1.513	1.511	14.127
-6.0	-3.73296	3.97541	12.481	8.322	1.500	1.497	14.059
-5.8	-3.53336	3.97178	13.154	8.901	1.478	1.474	13.943
-5.6	-3.33396	3.96625	14.265	9.869	1.445	1.440	13.772
-5.4	-3.13489	3.95779	16.025	11.399	1.406	1.398	13.556
-5.2	-2.93631	3.94487	18.740	13.746	1.363	1.352	13.308
-5.0	-2.73847	3.92527	22.814	17.238	1.323	1.306	13.050
-4.8	-2.54172	3.89599	28.718	22.244	1.291	1.266	12.797
-4.6	-2.34651	3.85328	36.876	29.057	1.269	1.232	12.558
-4.4	-2.15336	3.79298	47.444	37.700	1.258	1.208	12.333
-4.2	-1.96279	3.71149	59.976	47.662	1.258	1.190	12.109
-4.0	-1.77519	3.60708	73.165	57.820	1.265	1.177	11.876
-3.8	-1.59062	3.48111	85.078	66.648	1.277	1.169	11.625
-3.6	-1.40882	3.33830	93.738	72.751	1.288	1.164	11.357
-3.4	-1.22912	3.18585	97.704	75.358	1.297	1.160	11.079
-3.2	-1.05066	3.03171	96.816	74.486	1.300	1.158	10.798
-3.0	-.87249	2.88303	91.876	70.777	1.298	1.157	10.527
-2.8	-.69379	2.74509	84.140	65.132	1.292	1.158	10.273
-2.6	-.51386	2.62112	74.958	58.451	1.282	1.159	10.044
-2.4	-.33224	2.51248	65.462	51.466	1.272	1.161	9.843
-2.2	-.14867	2.41918	56.375	44.697	1.261	1.164	9.670
-2.0	.03693	2.34029	48.148	38.459	1.252	1.168	9.528
-1.8	.22452	2.27437	40.967	32.911	1.245	1.173	9.414
-1.6	.41396	2.21974	34.857	28.112	1.240	1.180	9.326
-1.4	.60506	2.17469	29.765	24.048	1.238	1.187	9.260
-1.2	.79758	2.13757	25.600	20.674	1.238	1.196	9.214
-1.0	.99128	2.10678	22.261	17.930	1.242	1.206	9.185
-.8	1.18590	2.08085	19.654	15.761	1.247	1.216	9.167
-.6	1.38116	2.05829	17.720	14.123	1.255	1.226	9.156
-.4	1.57677	2.03758	16.419	12.997	1.263	1.236	9.146
-.2	1.77238	2.01708	15.753	12.381	1.272	1.243	9.127
-.0	1.96758	1.99492	15.737	12.288	1.281	1.248	9.091
.2	2.16192	1.96906	16.393	12.720	1.289	1.248	9.034
.4	2.35490	1.93748	17.681	13.633	1.297	1.246	8.953
.6	2.54610	1.89865	19.429	14.876	1.306	1.242	8.849
.8	2.73532	1.85210	21.317	16.195	1.316	1.239	8.729
1.0	2.92271	1.79907	22.924	17.284	1.326	1.238	8.600
1.2	3.10887	1.74268	23.860	17.886	1.334	1.240	8.472
1.4	3.29492	1.68757	23.949	17.886	1.339	1.247	8.361
1.6	3.48236	1.63947		17.327		1.261	8.287
1.8	3.67311	1.60492	21.734	16.346	1.330	1.283	8.270
2.0	3.86945	1.59144	19.893	15.142	1.314	1.313	8.331

Table 1 Continued

T = 12,800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.52877	3.98259	12.770	8.651	1.476	1.475	14.020
-6.6	-4.32891	3.98130	12.285	8.196	1.499	1.498	14.128
-6.4	-4.12906	3.97997	12.082	7.995	1.511	1.510	14.183
-6.2	-3.92923	3.97834	12.111	8.008	1.512	1.511	14.183
-6.0	-3.72948	3.97608	12.378	8.235	1.503	1.501	14.132
-5.8	-3.52984	3.97276	12.940	8.723	1.483	1.481	14.031
-5.6	-3.33039	3.96775	13.916	9.564	1.455	1.449	13.874
-5.4	-3.13123	3.96010	15.469	10.914	1.417	1.411	13.674
-5.2	-2.93251	3.94841	17.891	13.002	1.376	1.365	13.430
-5.0	-2.73447	3.93065	21.529	16.134	1.334	1.319	13.172
-4.8	-2.53742	3.90401	26.865	20.670	1.300	1.276	12.914
-4.6	-2.34180	3.86491	34.346	26.932	1.275	1.241	12.672
-4.4	-2.14810	3.80923	44.205	35.028	1.262	1.215	12.444
-4.2	-1.95686	3.73314	56.170	44.603	1.259	1.195	12.219
-4.0	-1.76851	3.63431	69.174	54.694	1.265	1.181	11.988
-3.8	-1.58322	3.51330	81.411	63.851	1.275	1.172	11.740
-3.6	-1.40079	3.37403	90.878	70.614	1.287	1.166	11.475
-3.4	-1.22064	3.22325	95.997	74.047	1.296	1.162	11.197
-3.2	-1.04196	3.06887	96.248	73.990	1.301	1.160	10.914
-3.0	-.86380	2.91835	92.240	70.945	1.300	1.159	10.638
-2.8	-.68529	2.77748	85.183	65.768	1.295	1.159	10.379
-2.6	-.50570	2.64996	76.350	59.365	1.286	1.160	10.142
-2.4	-.32452	2.53757	66.975	52.506	1.276	1.161	9.932
-2.2	-.14144	2.44061	57.874	45.751	1.265	1.164	9.753
-2.0	.04367	2.35834	49.532	39.457	1.255	1.168	9.603
-1.8	.23079	2.28940	42.183	33.817	1.247	1.173	9.481
-1.6	.41979	2.23217	35.901	28.908	1.242	1.179	9.386
-1.4	.61050	2.18493	30.641	24.730	1.239	1.186	9.314
-1.2	.80269	2.14599	26.324	21.246	1.239	1.195	9.264
-1.0	.99612	2.11374	22.843	18.397	1.242	1.204	9.230
-.8	1.19052	2.08668	20.112	16.131	1.247	1.214	9.210
-.6	1.38563	2.06332	18.058	14.401	1.254	1.225	9.197
-.4	1.58115	2.04213	16.643	13.183	1.262	1.235	9.187
-.2	1.77673	2.02148	15.855	12.475	1.271	1.243	9.169
-.0	1.97199	1.99954	15.722	12.286	1.280	1.248	9.138
.2	2.16648	1.97430	16.253	12.622	1.288	1.248	9.083
.4	2.35970	1.94371	17.425	13.447	1.296	1.247	9.006
.6	2.55121	1.90610	19.099	14.633	1.305	1.243	8.906
.8	2.74078	1.86087	20.969	15.945	1.315	1.240	8.788
1.0	2.92850	1.80899	22.628	17.075	1.325	1.239	8.661
1.2	3.11493	1.75334	23.682	17.757	1.334	1.241	8.534
1.4	3.30112	1.69847	23.882	17.852	1.338	1.248	8.422
1.6	3.48858	1.65013		17.376		1.261	8.345
1.8	3.67923	1.61496	21.897	16.462	1.330	1.282	8.326
2.0	3.87533	1.60054	20.109	15.304	1.314	1.311	8.380

Table 1 Continued

T = 12,900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.52533	3.98314	13.108	8.967	1.462	1.460	14.005
-6.6	-4.32548	3.98173	12.488	8.377	1.491	1.488	14.136
-6.4	-4.12563	3.98038	12.171	8.083	1.506	1.504	14.213
-6.2	-3.92580	3.97879	12.116	8.020	1.511	1.509	14.231
-6.0	-3.72604	3.97668	12.306	8.173	1.506	1.503	14.200
-5.8	-3.52637	3.97365	12.775	8.577	1.490	1.486	14.113
-5.6	-3.32687	3.96909	13.619	9.304	1.464	1.459	13.975
-5.4	-3.12762	3.96216	14.987	10.492	1.428	1.422	13.784
-5.2	-2.92879	3.95157	17.130	12.349	1.387	1.377	13.549
-5.0	-2.73056	3.93545	20.405	15.158	1.346	1.331	13.294
-4.8	-2.53325	3.91121	25.223	19.263	1.309	1.288	13.034
-4.6	-2.33724	3.87543	32.064	25.006	1.282	1.251	12.789
-4.4	-2.14303	3.82407	41.224	32.563	1.266	1.222	12.556
-4.2	-1.95116	3.75314	52.578	41.713	1.260	1.201	12.329
-4.0	-1.76209	3.65984	65.296	51.646	1.264	1.185	12.098
-3.8	-1.57607	3.54393	77.731	61.027	1.274	1.175	11.853
-3.6	-1.39299	3.40855	87.880	68.368	1.285	1.168	11.591
-3.4	-1.21235	3.25988	94.049	72.587	1.296	1.164	11.313
-3.2	-1.03340	3.10569	95.433	73.333	1.301	1.161	11.029
-3.0	-.85519	2.95372	92.407	70.975	1.302	1.160	10.750
-2.8	-.67682	2.81016	86.038	66.300	1.298	1.160	10.485
-2.6	-.49754	2.67925	77.650	60.209	1.290	1.160	10.241
-2.4	-.31678	2.56319	68.449	53.502	1.279	1.162	10.024
-2.2	-.13416	2.46259	59.355	46.782	1.269	1.165	9.837
-2.0	.05046	2.37690	50.912	40.448	1.259	1.168	9.679
-1.8	.23710	2.30491	43.418	34.725	1.250	1.173	9.549
-1.6	.42566	2.24502	36.966	29.710	1.244	1.179	9.448
-1.4	.61598	2.19551	31.542	25.423	1.241	1.186	9.371
-1.2	.80783	2.15470	27.068	21.829	1.240	1.194	9.315
-1.0	1.00097	2.12094	23.447	18.879	1.242	1.203	9.277
-.8	1.19515	2.09270	20.589	16.517	1.247	1.213	9.254
-.6	1.39009	2.06847	18.416	14.696	1.253	1.223	9.239
-.4	1.58551	2.04674	16.887	13.390	1.261	1.233	9.227
-.2	1.78106	2.02589	15.987	12.589	1.270	1.242	9.211
-.0	1.97637	2.00411	15.732	12.305	1.279	1.247	9.182
.2	2.17098	1.97941	16.145	12.547	1.287	1.249	9.131
.4	2.36442	1.94973	17.204	13.285	1.295	1.248	9.058
.6	2.55624	1.91335	18.794	14.413	1.304	1.245	8.963
.8	2.74615	1.86941	20.637	15.707	1.314	1.241	8.848
1.0	2.93421	1.81871	22.343	16.875	1.324	1.240	8.723
1.2	3.12091	1.76387	23.496	17.632	1.333	1.242	8.596
1.4	3.30727	1.70933	23.797	17.819	1.335	1.249	8.485
1.6	3.49477	1.66082		17.428		1.262	8.407
1.8	3.68532	1.62508	22.064	16.582	1.331	1.282	8.385
2.0	3.88119	1.60972	20.339	15.473	1.315	1.310	8.434

Table 1 Continued

T = 13,000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.52191	3.98378	13.525	9.357	1.445	1.444	13.985
-6.6	-4.32208	3.98221	12.725	8.614	1.477	1.477	14.139
-6.4	-4.12223	3.98079	12.306	8.209	1.499	1.498	14.236
-6.2	-3.92240	3.97924	12.159	8.063	1.508	1.507	14.276
-6.0	-3.72262	3.97725	12.272	8.143	1.507	1.506	14.268
-5.8	-3.52293	3.97444	12.648	8.464	1.494	1.492	14.197
-5.6	-3.32338	3.97029	13.367	9.086	1.471	1.468	14.074
-5.4	-3.12407	3.96399	14.569	10.130	1.438	1.433	13.895
-5.2	-2.92513	3.95437	16.476	11.776	1.399	1.391	13.673
-5.0	-2.72674	3.93974	19.399	14.291	1.357	1.344	13.418
-4.8	-2.52918	3.91766	23.744	17.998	1.319	1.300	13.158
-4.6	-2.33282	3.88492	29.975	23.245	1.290	1.261	12.906
-4.4	-2.13814	3.83759	38.450	30.263	1.271	1.230	12.667
-4.2	-1.94568	3.77157	49.177	38.950	1.263	1.207	12.438
-4.0	-1.75592	3.68368	61.508	48.649	1.264	1.190	12.208
-3.8	-1.56917	3.57297	74.002	58.145	1.273	1.179	11.965
-3.6	-1.38542	3.44176	84.706	65.965	1.284	1.171	11.706
-3.4	-1.20427	3.29560	91.825	70.904	1.295	1.166	11.429
-3.2	-1.02499	3.14207	94.307	72.437	1.302	1.163	11.145
-3.0	-.84668	2.98899	92.269	70.785	1.304	1.161	10.863
-2.8	-.66842	2.84305	86.651	66.646	1.300	1.161	10.591
-2.6	-.48941	2.70892	78.760	60.907	1.293	1.161	10.341
-2.4	-.30902	2.58928	69.774	54.387	1.283	1.163	10.116
-2.2	-.12686	2.48507	60.732	47.734	1.272	1.165	9.921
-2.0	.05728	2.39596	52.224	41.384	1.262	1.168	9.755
-1.8	.24345	2.32087	44.606	35.594	1.253	1.173	9.619
-1.6	.43157	2.25826	38.003	30.487	1.247	1.178	9.511
-1.4	.62149	2.20644	32.423	26.096	1.242	1.185	9.428
-1.2	.81299	2.16369	27.802	22.399	1.241	1.193	9.367
-1.0	1.00584	2.12836	24.045	19.350	1.243	1.202	9.325
-.8	1.19979	2.09889	21.058	16.894	1.246	1.212	9.298
-.6	1.39455	2.07375	18.768	14.984	1.253	1.222	9.281
-.4	1.58985	2.05142	17.124	13.587	1.260	1.232	9.268
-.2	1.78536	2.03030	16.109	12.694	1.269	1.241	9.253
-.0	1.98069	2.00861	15.728	12.310	1.278	1.247	9.226
.2	2.17542	1.98438	16.008	12.447	1.286	1.249	9.179
.4	2.36907	1.95555	16.939	13.086	1.294	1.249	9.110
.6	2.56117	1.92029	18.420	14.132	1.303	1.246	9.018
.8	2.75141	1.87766	20.213	15.388	1.314	1.243	8.907
1.0	2.93981	1.82814	21.930	16.566	1.324	1.242	8.784
1.2	3.12679	1.77417	23.164	17.382	1.333	1.243	8.660
1.4	3.31333	1.72004		17.654		1.250	8.549
1.6	3.50089	1.67144		17.356		1.262	8.469
1.8	3.69136	1.63517	22.094	16.588	1.332	1.283	8.445
2.0	3.88702	1.61893	20.453	15.543	1.316	1.310	8.489

Table 1 Continued

T = 13,100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.51850	3.98454	14.038	9.831	1.428	1.427	13.954
-6.6	-4.31869	3.98276	13.041	8.904	1.465	1.464	14.133
-6.4	-4.11886	3.98124	12.482	8.377	1.490	1.490	14.253
-6.2	-3.91903	3.97968	12.239	8.137	1.504	1.503	14.316
-6.0	-3.71923	3.97778	12.256	8.140	1.506	1.505	14.318
-5.8	-3.51952	3.97517	12.549	8.380	1.497	1.496	14.271
-5.6	-3.31994	3.97136	13.161	8.908	1.477	1.474	14.161
-5.4	-3.12056	3.96562	14.221	9.821	1.448	1.443	13.999
-5.2	-2.92152	3.95688	15.912	11.283	1.410	1.403	13.789
-5.0	-2.72299	3.94357	18.525	13.531	1.369	1.357	13.539
-4.8	-2.52521	3.92345	22.449	16.881	1.330	1.312	13.279
-4.6	-2.32854	3.89348	28.118	21.671	1.297	1.271	13.022
-4.4	-2.13343	3.84988	35.938	28.176	1.275	1.238	12.778
-4.2	-1.94041	3.78852	46.037	36.383	1.265	1.213	12.547
-4.0	-1.74998	3.70589	57.933	45.799	1.265	1.195	12.317
-3.8	-1.56252	3.60041	70.365	55.332	1.272	1.182	12.075
-3.6	-1.37809	3.47361	81.485	63.541	1.282	1.174	11.818
-3.4	-1.19638	3.33035	89.454	69.146	1.294	1.168	11.544
-3.2	-1.01674	3.17788	93.015	71.448	1.302	1.165	11.260
-3.0	-.83828	3.02410	91.993	70.505	1.305	1.163	10.975
-2.8	-.66008	2.87606	87.188	66.924	1.303	1.162	10.699
-2.6	-.48129	2.73893	79.802	61.562	1.296	1.162	10.442
-2.4	-.30127	2.61581	71.091	55.257	1.287	1.163	10.210
-2.2	-.11954	2.50802	62.115	48.688	1.276	1.165	10.006
-2.0	.06413	2.41549	53.574	42.332	1.266	1.169	9.833
-1.8	.24983	2.33727	45.830	36.483	1.256	1.173	9.690
-1.6	.43751	2.27190	39.077	31.286	1.249	1.178	9.575
-1.4	.62703	2.21770	33.338	26.794	1.244	1.184	9.485
-1.2	.81818	2.17297	28.565	22.994	1.242	1.192	9.420
-1.0	1.01073	2.13602	24.672	19.845	1.243	1.201	9.374
-.8	1.20443	2.10525	21.557	17.295	1.246	1.210	9.342
-.6	1.39901	2.07915	19.151	15.294	1.252	1.221	9.324
-.4	1.59418	2.05617	17.393	13.809	1.260	1.231	9.310
-.2	1.78963	2.03472	16.263	12.826	1.268	1.239	9.294
-.0	1.98498	2.01305	15.765	12.346	1.277	1.246	9.270
.2	2.17980	1.98921	15.915	12.384	1.285	1.249	9.227
.4	2.37363	1.96113	16.721	12.925	1.294	1.249	9.161
.6	2.56600	1.92697	18.098	13.890	1.303	1.247	9.073
.8	2.75657	1.88559	19.827	15.101	1.313	1.245	8.966
1.0	2.94530	1.83727	21.545	16.283	1.323	1.243	8.844
1.2	3.13257	1.78422	22.850	17.149	1.332	1.245	8.722
1.4	3.31931	1.73054		17.500		1.251	8.611
1.6	3.50693	1.68193		17.286		1.263	8.529
1.8	3.69735	1.64520	22.110	16.594	1.332	1.283	8.502
2.0	3.89281	1.62810	20.553	15.610	1.317	1.308	8.540

Table 1 Continued

T = 13,200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.51510	3.98543	14.642	10.389	1.409	1.407	13.915
-6.6	-4.31532	3.98338	13.418	9.247	1.451	1.449	14.115
-6.4	-4.11550	3.98172	12.695	8.576	1.480	1.480	14.260
-6.2	-3.91567	3.98013	12.344	8.235	1.499	1.497	14.340
-6.0	-3.71588	3.97829	12.268	8.156	1.504	1.503	14.365
-5.8	-3.51614	3.97584	12.470	8.318	1.499	1.497	14.331
-5.6	-3.31653	3.97233	12.986	8.756	1.483	1.480	14.244
-5.4	-3.11710	3.96708	13.906	9.549	1.456	1.451	14.094
-5.2	-2.91797	3.95912	15.402	10.845	1.420	1.413	13.894
-5.0	-2.71931	3.94700	17.744	12.858	1.380	1.369	13.657
-4.8	-2.52133	3.92864	21.282	15.881	1.340	1.324	13.397
-4.6	-2.32437	3.90121	26.445	20.252	1.306	1.282	13.138
-4.4	-2.12887	3.86106	33.650	26.267	1.281	1.247	12.890
-4.2	-1.93532	3.80410	43.122	33.997	1.268	1.220	12.656
-4.0	-1.74426	3.72656	54.525	43.081	1.266	1.200	12.423
-3.8	-1.55611	3.62631	66.826	52.573	1.271	1.186	12.184
-3.6	-1.37100	3.50410	78.282	61.097	1.281	1.177	11.930
-3.4	-1.18871	3.36409	86.974	67.299	1.292	1.170	11.657
-3.2	-1.00865	3.21308	91.565	70.340	1.302	1.166	11.374
-3.0	-.82999	3.05899	91.545	70.109	1.306	1.164	11.086
-2.8	-.65180	2.90917	87.553	67.113	1.305	1.163	10.807
-2.6	-.47321	2.76924	80.736	62.155	1.299	1.163	10.543
-2.4	-.29351	2.64278	72.377	56.090	1.290	1.164	10.304
-2.2	-.11220	2.53146	63.489	49.626	1.279	1.166	10.093
-2.0	.07102	2.43551	54.910	43.278	1.269	1.169	9.912
-1.8	.25626	2.35412	47.066	37.377	1.259	1.173	9.762
-1.6	.44349	2.28594	40.173	32.097	1.252	1.178	9.640
-1.4	.63260	2.22933	34.278	27.505	1.246	1.184	9.545
-1.2	.82339	2.18255	29.354	23.603	1.244	1.191	9.473
-1.0	1.01564	2.14391	25.313	20.354	1.244	1.200	9.422
-.8	1.20908	2.11181	22.074	17.709	1.246	1.209	9.388
-.6	1.40347	2.08468	19.550	15.618	1.252	1.219	9.366
-.4	1.59851	2.06100	17.678	14.045	1.259	1.229	9.351
-.2	1.79388	2.03916	16.435	12.972	1.267	1.238	9.336
-.0	1.98923	2.01744	15.818	12.399	1.276	1.245	9.312
.2	2.18413	1.99392	15.850	12.337	1.285	1.250	9.274
.4	2.37813	1.96654	16.525	12.779	1.293	1.250	9.212
.6	2.57075	1.93340	17.789	13.660	1.302	1.248	9.128
.8	2.76163	1.89322	19.444	14.818	1.312	1.246	9.024
1.0	2.95068	1.84610	21.156	15.995	1.323	1.245	8.906
1.2	3.13825	1.79399	22.516	16.903	1.332	1.246	8.784
1.4	3.32519	1.74085		17.329		1.252	8.673
1.6	3.51290	1.69229		17.200		1.264	8.593
1.8	3.70327	1.65516	22.117	16.590	1.333	1.283	8.562
2.0	3.89854	1.63725	20.653	15.678	1.317	1.307	8.593

Table 1 Continued

T = 13, 300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.51170	3.98648	15.362	11.058	1.389	1.387	13.868
-6.6	-4.31196	3.98410	13.863	9.665	1.434	1.432	14.088
-6.4	-4.11216	3.98226	12.967	8.825	1.469	1.468	14.257
-6.2	-3.91235	3.98060	12.480	8.368	1.491	1.489	14.359
-6.0	-3.71254	3.97878	12.316	8.200	1.502	1.500	14.407
-5.8	-3.51280	3.97647	12.428	8.284	1.500	1.498	14.392
-5.6	-3.31315	3.97321	12.840	8.632	1.488	1.485	14.323
-5.4	-3.11368	3.96840	13.635	9.317	1.463	1.459	14.188
-5.2	-2.91448	3.96113	14.963	10.460	1.430	1.424	14.004
-5.0	-2.71569	3.95007	17.053	12.260	1.391	1.381	13.775
-4.8	-2.51754	3.93331	20.237	14.984	1.351	1.336	13.516
-4.6	-2.32032	3.90818	24.922	18.962	1.314	1.292	13.253
-4.4	-2.12445	3.87122	31.562	24.503	1.288	1.256	13.003
-4.2	-1.93041	3.81839	40.391	31.753	1.272	1.227	12.764
-4.0	-1.73876	3.74575	51.261	40.462	1.267	1.205	12.530
-3.8	-1.54992	3.65068	63.326	49.830	1.271	1.190	12.292
-3.6	-1.36412	3.53322	74.987	58.570	1.280	1.180	12.041
-3.4	-1.18123	3.39674	84.322	65.294	1.291	1.173	11.771
-3.2	-1.00073	3.24760	89.834	69.032	1.301	1.168	11.487
-3.0	-.82183	3.09360	90.820	69.509	1.307	1.166	11.198
-2.8	-.64361	2.94230	87.681	67.117	1.306	1.164	10.915
-2.6	-.46517	2.79980	81.495	62.601	1.302	1.164	10.646
-2.4	-.28576	2.67013	73.477	56.806	1.293	1.165	10.400
-2.2	-.10484	2.55536	64.762	50.475	1.283	1.166	10.181
-2.0	.07793	2.45599	56.183	44.163	1.272	1.169	9.993
-1.8	.26271	2.37142	48.259	38.229	1.262	1.173	9.834
-1.6	.44951	2.30040	41.234	32.878	1.254	1.178	9.706
-1.4	.63821	2.24130	35.202	28.197	1.248	1.183	9.605
-1.2	.82863	2.19243	30.131	24.200	1.245	1.190	9.527
-1.0	1.02056	2.15206	25.957	20.857	1.245	1.198	9.471
-.8	1.21375	2.11856	22.596	18.122	1.247	1.208	9.433
-.6	1.40793	2.09036	19.958	15.947	1.252	1.218	9.408
-.4	1.60282	2.06592	17.984	14.293	1.258	1.228	9.392
-.2	1.79811	2.04363	16.633	13.139	1.266	1.237	9.376
-.0	1.99344	2.02180	15.912	12.485	1.274	1.244	9.354
.2	2.18842	1.99853	15.836	12.339	1.283	1.249	9.319
.4	2.38256	1.97176	16.406	12.699	1.292	1.251	9.260
.6	2.57541	1.93958	17.580	13.514	1.301	1.249	9.179
.8	2.76659	1.90059	19.185	14.636	1.311	1.247	9.079
1.0	2.95597	1.85467	20.903	15.818	1.321	1.246	8.964
1.2	3.14383	1.80355	22.326	16.775	1.331	1.247	8.844
1.4	3.33099	1.75100		17.277		1.253	8.734
1.6	3.51881	1.70255		17.228		1.264	8.651
1.8	3.70914	1.66508	22.239	16.687	1.333	1.283	8.618
2.0	3.90423	1.64638	20.833	15.825	1.316	1.305	8.643

Table 1 Continued

T = 13, 400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.50831	3.98774	16.227	11.855	1.369	1.366	13.816
-6.6	-4.30862	3.98495	14.409	10.170	1.417	1.415	14.054
-6.4	-4.10884	3.98287	13.296	9.135	1.455	1.454	14.243
-6.2	-3.90904	3.98110	12.666	8.545	1.482	1.482	14.376
-6.0	-3.70924	3.97927	12.396	8.277	1.498	1.496	14.442
-5.8	-3.50948	3.97706	12.417	8.279	1.500	1.498	14.448
-5.6	-3.30981	3.97402	12.731	8.545	1.490	1.488	14.394
-5.4	-3.11030	3.96959	13.417	9.127	1.470	1.466	14.279
-5.2	-2.91102	3.96293	14.586	10.133	1.439	1.433	14.108
-5.0	-2.71213	3.95283	16.454	11.737	1.402	1.392	13.887
-4.8	-2.51382	3.93751	19.318	14.192	1.361	1.348	13.636
-4.6	-2.31637	3.91448	23.579	17.807	1.324	1.303	13.371
-4.4	-2.12016	3.88045	29.651	22.902	1.295	1.265	13.117
-4.2	-1.92567	3.83148	37.871	29.674	1.276	1.234	12.872
-4.0	-1.73345	3.76352	48.208	37.985	1.269	1.211	12.638
-3.8	-1.54396	3.67355	59.951	47.167	1.271	1.195	12.400
-3.6	=1.35748	3.56091	71.687	56.041	1.279	1.183	12.150
-3.4	-1.17397	3.42825	81.564	63.211	1.290	1.175	11.882
-3.2	-.99299	3.28133	87.903	67.603	1.300	1.170	11.600
-3.0	-.81380	3.12779	89.894	68.792	1.307	1.167	11.310
-2.8	-.63550	2.97536	87.650	67.004	1.308	1.166	11.023
-2.6	-.45717	2.83054	82.110	62.952	1.304	1.165	10.749
-2.4	-.27803	2.69781	74.499	57.459	1.297	1.165	10.496
-2.2	-.09748	2.57967	65.983	51.288	1.287	1.167	10.270
-2.0	.08487	2.47691	57.445	45.027	1.276	1.170	10.075
-1.8	.26920	2.38915	49.454	39.074	1.266	1.173	9.909
-1.6	.45555	2.31524	42.307	33.659	1.257	1.177	9.773
-1.4	.64384	2.25362	36.130	28.895	1.250	1.183	9.665
-1.2	.83389	2.20260	30.921	24.805	1.247	1.190	9.582
-1.0	1.02550	2.16045	26.617	21.371	1.246	1.198	9.522
-.8	1.21842	2.12551	23.127	18.545	1.247	1.207	9.479
-.6	1.41239	2.09619	20.374	16.283	1.251	1.216	9.452
-.4	1.60713	2.07094	18.291	14.546	1.257	1.226	9.433
-.2	1.80232	2.04816	16.841	13.308	1.265	1.236	9.417
-.0	1.99763	2.02617	16.009	12.565	1.274	1.244	9.397
.2	2.19266	2.00308	15.805	12.326	1.282	1.249	9.362
.4	2.38694	1.97689	16.258	12.591	1.291	1.251	9.309
.6	2.58001	1.94560	17.317	13.317	1.300	1.250	9.232
.8	2.77148	1.90774	18.836	14.375	1.310	1.248	9.135
1.0	2.96118	1.86303	20.522	15.538	1.321	1.247	9.022
1.2	3.14934	1.81294	21.985	16.523	1.331	1.248	8.905
1.4	3.33673	1.76102		17.089		1.253	8.795
1.6	3.52465	1.71275		17.131		1.265	8.712
1.8	3.71497	1.67498		16.682		1.283	8.678
2.0	3.90989	1.65553	20.833	15.922	1.316	1.305	8.699

Table 1 Continued

T = 13,500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.50492	3.98923	17.241	12.791	1.348	1.344	13.758
-6.6	-4.30528	3.98594	15.049	10.764	1.398	1.396	14.014
-6.4	-4.10554	3.98356	13.688	9.504	1.440	1.438	14.222
-6.2	-3.90575	3.98164	12.902	8.759	1.473	1.471	14.377
-6.0	-3.70595	3.97977	12.507	8.383	1.492	1.490	14.468
-5.8	-3.50619	3.97762	12.430	8.297	1.498	1.496	14.494
-5.6	-3.30650	3.97477	12.657	8.480	1.493	1.489	14.456
-5.4	-3.10695	3.97067	13.226	8.967	1.475	1.471	14.360
-5.2	-2.90762	3.96456	14.250	9.847	1.447	1.441	14.202
-5.0	-2.70863	3.95531	15.917	11.278	1.411	1.403	13.994
-4.8	-2.51017	3.94128	18.495	13.488	1.371	1.359	13.750
-4.6	-2.31251	3.92017	22.366	16.772	1.334	1.315	13.488
-4.4	-2.11599	3.88884	27.928	21.456	1.302	1.275	13.228
-4.2	-1.92109	3.84347	35.567	27.770	1.281	1.242	12.979
-4.0	-1.72832	3.77996	45.350	35.669	1.271	1.217	12.743
-3.8	-1.53820	3.69497	56.734	44.621	1.271	1.199	12.506
-3.6	-1.35105	3.58722	68.478	53.559	1.279	1.186	12.258
-3.4	-1.16691	3.45859	78.780	61.114	1.289	1.178	11.993
-3.2	-.98543	3.31424	85.902	66.111	1.299	1.172	11.711
-3.0	-.80592	3.16152	88.852	67.975	1.307	1.169	11.421
-2.8	-.62749	3.00830	87.480	66.819	1.309	1.167	11.131
-2.6	-.44923	2.86142	82.633	63.251	1.306	1.166	10.852
-2.4	-.27032	2.72581	75.489	58.079	1.300	1.166	10.594
-2.2	-.09011	2.60438	67.193	52.086	1.290	1.168	10.361
-2.0	.09183	2.49827	58.694	45.890	1.279	1.170	10.157
-1.8	.27572	2.40730	50.652	39.926	1.269	1.173	9.984
-1.6	.46163	2.33048	43.404	34.455	1.260	1.177	9.842
-1.4	.64950	2.26630	37.091	29.609	1.253	1.183	9.727
-1.2	.83918	2.21308	31.742	25.427	1.248	1.189	9.639
-1.0	1.03047	2.16909	27.296	21.898	1.247	1.197	9.573
-.8	1.22311	2.13266	23.682	18.983	1.248	1.206	9.527
-.6	1.41686	2.10217	20.813	16.636	1.251	1.215	9.496
-.4	1.61143	2.07606	18.619	14.814	1.257	1.225	9.474
-.2	1.80652	2.05273	17.060	13.493	1.264	1.234	9.458
-.0	2.00179	2.03050	16.119	12.662	1.273	1.243	9.439
.2	2.19685	2.00753	15.805	12.332	1.282	1.248	9.406
.4	2.39125	1.98181	16.132	12.501	1.290	1.251	9.356
.6	2.58452	1.95135	17.076	13.140	1.300	1.251	9.284
.8	2.77626	1.91459	18.508	14.132	1.310	1.250	9.190
1.0	2.96627	1.87103	20.159	15.270	1.320	1.248	9.080
1.2	3.15473	1.82197	21.646	16.276	1.330	1.249	8.964
1.4	3.34235	1.77078		16.900		1.254	8.855
1.6	3.53042	1.72277		17.018		1.265	8.773
1.8	3.72075	1.68485		16.650		1.283	8.737
2.0	3.91555	1.66482	20.833	15.967	1.316	1.303	8.750

Table 1 Continued

T = 13,600

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
-6.8	-4.50153	3.99099	18.438	13.892	1.327	1.323	13.703
-6.6	-4.30195	3.98710	15.816	11.467	1.379	1.376	13.968
-6.4	-4.10225	3.98436	14.170	9.944	1.425	1.422	14.197
-6.2	-3.90248	3.98223	13.182	9.024	1.461	1.459	14.373
-6.0	-3.70269	3.98030	12.654	8.527	1.484	1.482	14.484
-5.8	-3.50292	3.97818	12.478	8.344	1.495	1.493	14.535
-5.6	-3.30322	3.97546	12.614	8.442	1.494	1.490	14.516
-5.4	-3.10364	3.97165	13.078	8.837	1.480	1.476	14.438
-5.2	-2.90425	3.96602	13.976	9.601	1.456	1.450	14.300
-5.0	-2.70518	3.95754	15.450	10.873	1.421	1.413	14.101
-4.8	-2.50659	3.94469	17.769	12.858	1.382	1.370	13.861
-4.6	-2.30873	3.92530	21.263	15.839	1.342	1.326	13.603
-4.4	-2.11194	3.89645	26.365	20.128	1.310	1.284	13.340
-4.2	-1.91665	3.85444	33.440	25.994	1.286	1.250	13.090
-4.0	-1.72338	3.79516	42.632	33.464	1.274	1.223	12.848
-3.8	-1.53265	3.71501	53.599	42.137	1.272	1.204	12.611
-3.6	-1.34484	3.61215	65.237	51.055	1.278	1.190	12.364
-3.4	-1.16006	3.48773	75.872	58.907	1.288	1.181	12.102
-3.2	-.97805	3.34627	83.711	64.450	1.299	1.175	11.823
-3.0	-.79817	3.19476	87.540	66.968	1.307	1.171	11.532
-2.8	-.61958	3.04107	87.079	66.445	1.311	1.168	11.240
-2.6	-.44135	2.89239	82.951	63.384	1.309	1.167	10.957
-2.4	-.26263	2.75408	76.288	58.565	1.303	1.167	10.692
-2.2	-.08274	2.62947	68.264	52.779	1.293	1.168	10.452
-2.0	.09880	2.52005	59.859	46.676	1.282	1.170	10.240
-1.8	.28226	2.42588	51.791	40.724	1.272	1.173	10.060
-1.6	.46774	2.34611	44.453	35.212	1.262	1.177	9.911
-1.4	.65520	2.27932	38.028	30.295	1.255	1.183	9.790
-1.2	.84450	2.22386	32.541	26.031	1.250	1.189	9.696
-1.0	1.03545	2.17799	27.972	22.416	1.248	1.196	9.624
-.8	1.22781	2.14002	24.237	19.417	1.248	1.204	9.574
-.6	1.42133	2.10832	21.258	16.990	1.251	1.214	9.540
-.4	1.61573	2.08130	18.962	15.093	1.256	1.223	9.516
-.2	1.81070	2.05737	17.307	13.697	1.264	1.233	9.499
-.0	2.00593	2.03486	16.269	12.792	1.272	1.242	9.479
.2	2.20101	2.01195	15.859	12.386	1.280	1.248	9.448
.4	2.39552	1.98666	16.090	12.480	1.289	1.251	9.401
.6	2.58898	1.95697	16.940	13.052	1.298	1.251	9.332
.8	2.78098	1.92124	18.312	14.001	1.308	1.250	9.242
1.0	2.97129	1.87887	19.943	15.126	1.318	1.249	9.135
1.2	3.16005	1.83087	21.470	16.161	1.329	1.250	9.022
1.4	3.34791	1.78041		16.847		1.255	8.914
1.6	3.53612	1.73271		17.031		1.265	8.829
1.8	3.72646	1.69459		16.722		1.282	8.789
2.0	3.92111	1.67387	20.833	16.070	1.316	1.299	8.794

Table 1 Continued

T = 13,700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.49812	3.99308	19.903	15.252	1.305	1.303	13.651
-6.6	-4.29862	3.98847	16.781	12.369	1.357	1.356	13.921
-6.4	-4.09897	3.98529	14.814	10.539	1.406	1.406	14.167
-6.2	-3.89923	3.98290	13.599	9.417	1.444	1.446	14.365
-6.0	-3.69945	3.98085	12.922	8.777	1.472	1.474	14.498
-5.8	-3.49968	3.97872	12.627	8.494	1.487	1.489	14.569
-5.6	-3.29997	3.97612	12.667	8.505	1.489	1.491	14.573
-5.4	-3.10036	3.97256	13.036	8.808	1.480	1.480	14.512
-5.2	-2.90092	3.96735	13.804	9.464	1.459	1.457	14.389
-5.0	-2.70178	3.95956	15.112	10.589	1.427	1.423	14.206
-4.8	-2.50308	3.94776	17.196	12.370	1.390	1.381	13.976
-4.6	-2.30504	3.92995	20.362	15.072	1.351	1.336	13.717
-4.4	-2.10799	3.90336	25.021	18.999	1.317	1.295	13.456
-4.2	-1.91234	3.86446	31.556	24.434	1.291	1.259	13.200
-4.0	-1.71860	3.80917	40.185	31.475	1.277	1.230	12.956
-3.8	-1.52729	3.73369	50.698	39.828	1.273	1.209	12.717
-3.6	-1.33884	3.63569	62.165	48.666	1.277	1.194	12.471
-3.4	-1.15342	3.51563	73.004	56.734	1.287	1.184	12.210
-3.2	-.97085	3.37733	81.454	62.767	1.298	1.177	11.933
-3.0	-.79058	3.22737	86.115	65.916	1.306	1.172	11.643
-2.8	-.61178	3.07356	86.548	66.009	1.311	1.170	11.349
-2.6	-.43354	2.92337	83.160	63.465	1.310	1.168	11.062
-2.4	-.25498	2.78255	77.024	59.017	1.305	1.168	10.791
-2.2	-.07538	2.65488	69.311	53.458	1.297	1.169	10.544
-2.0	.10578	2.54220	61.034	47.462	1.286	1.171	10.326
-1.8	.28882	2.44484	52.955	41.529	1.275	1.174	10.138
-1.6	.47387	2.36211	45.531	35.982	1.265	1.177	9.981
-1.4	.66092	2.29268	38.981	30.998	1.258	1.182	9.854
-1.2	.84984	2.23494	33.363	26.651	1.252	1.188	9.753
-1.0	1.04045	2.18714	28.664	22.950	1.249	1.195	9.677
-.8	1.23252	2.14758	24.806	19.865	1.249	1.203	9.622
-.6	1.42581	2.11462	21.713	17.354	1.251	1.213	9.584
-.4	1.62002	2.08665	19.313	15.375	1.256	1.222	9.558
-.2	1.81488	2.06207	17.555	13.899	1.263	1.232	9.540
-.0	2.01004	2.03923	16.411	12.913	1.271	1.240	9.519
.2	2.20513	2.01632	15.888	12.416	1.280	1.247	9.491
.4	2.39973	1.99138	15.995	12.418	1.288	1.251	9.446
.6	2.59336	1.96240	16.732	12.896	1.297	1.252	9.381
.8	2.78561	1.92769	17.996	13.769	1.307	1.251	9.294
1.0	2.97622	1.88644	19.571	14.852	1.318	1.250	9.192
1.2	3.16528	1.83951	21.096	15.887	1.328	1.251	9.080
1.4	3.35339	1.78984		16.614		1.256	8.974
1.6	3.54175	1.74249		16.872		1.266	8.889
1.8	3.73211	1.70426		16.644		1.282	8.847
2.0	3.92663	1.68289	20.833	16.082	1.316	1.298	8.845

Table 1 Continued

T = 13,800

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.49469	3.99556	20.947	16.161	1.296	1.283	13.598
-6.6	-4.29528	3.99009	17.244	12.758	1.352	1.336	13.870
-6.4	-4.09569	3.98636	14.888	10.575	1.408	1.388	14.128
-6.2	-3.89598	3.98366	13.435	9.216	1.458	1.432	14.345
-6.0	-3.69623	3.98144	12.579	8.418	1.494	1.464	14.505
-5.8	-3.49646	3.97928	12.165	8.022	1.516	1.484	14.598
-5.6	-3.29674	3.97675	12.095	7.940	1.523	1.490	14.622
-5.4	-3.09711	3.97340	12.364	8.159	1.515	1.483	14.584
-5.2	-2.89763	3.96857	13.013	8.712	1.494	1.462	14.471
-5.0	-2.69842	3.96138	14.180	9.703	1.462	1.432	14.308
-4.8	-2.49961	3.95053	16.047	11.306	1.419	1.392	14.088
-4.6	-2.30142	3.93415	18.930	13.756	1.376	1.348	13.834
-4.4	-2.10413	3.90965	23.178	17.354	1.336	1.305	13.570
-4.2	-1.90815	3.87362	29.220	22.393	1.305	1.267	13.310
-4.0	-1.71397	3.82208	37.323	29.022	1.286	1.237	13.063
-3.8	-1.52211	3.75109	47.363	37.056	1.278	1.215	12.822
-3.6	-1.33303	3.65790	58.605	45.780	1.280	1.198	12.575
-3.4	-1.14698	3.54230	69.619	54.038	1.288	1.187	12.317
-3.2	-.96384	3.40741	78.610	60.532	1.299	1.179	12.042
-3.0	-.78314	3.25933	84.128	64.320	1.308	1.174	11.753
-2.8	-.60410	3.10575	85.462	65.071	1.313	1.171	11.457
-2.6	-.42581	2.95432	82.895	63.102	1.314	1.170	11.167
-2.4	-.24737	2.81121	77.349	59.095	1.309	1.169	10.890
-2.2	-.06803	2.68060	70.011	53.826	1.301	1.170	10.637
-2.0	.11277	2.56473	61.940	48.000	1.290	1.171	10.412
-1.8	.29541	2.46420	53.909	42.137	1.279	1.174	10.218
-1.6	.48003	2.37849	46.453	36.597	1.269	1.178	10.053
-1.4	.66667	2.30639	39.816	31.580	1.261	1.182	9.919
-1.2	.85520	2.24632	34.098	27.177	1.255	1.188	9.812
-1.0	1.04547	2.19655	29.284	23.410	1.251	1.195	9.731
-.8	1.23725	2.15536	25.324	20.257	1.250	1.203	9.671
-.6	1.43029	2.12109	22.133	17.678	1.252	1.211	9.629
-.4	1.62432	2.09211	19.644	15.634	1.256	1.221	9.601
-.2	1.81904	2.06684	17.792	14.091	1.263	1.231	9.580
-.0	2.01413	2.04361	16.565	13.038	1.271	1.239	9.560
.2	2.20922	2.02065	15.950	12.472	1.279	1.247	9.534
.4	2.40389	1.99600	15.966	12.402	1.287	1.251	9.491
.6	2.59768	1.96767	16.613	12.816	1.296	1.252	9.429
.8	2.79016	1.93388	17.808	13.637	1.306	1.251	9.345
1.0	2.98106	1.89376	19.352	14.703	1.316	1.251	9.245
1.2	3.17041	1.84789	20.902	15.758	1.326	1.251	9.135
1.4	3.35877	1.79904		16.539		1.256	9.029
1.6	3.54729	1.75209		16.870		1.265	8.944
1.8	3.73768	1.71377		16.717		1.281	8.901
2.0	3.93208	1.69178	20.833	16.222	1.316	1.294	8.890

Table 1 Continued

T = 13, 900

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.49124	3.99847	25.566	20.624	1.240	1.245	13.450
-6.6	-4.29194	3.99198	21.191	16.594	1.277	1.288	13.668
-6.4	-4.09242	3.98762	18.398	13.994	1.315	1.330	13.882
-6.2	-3.89276	3.98452	16.620	12.384	1.342	1.366	14.066
-6.0	-3.69302	3.98209	15.561	11.402	1.365	1.394	14.203
-5.8	-3.49326	3.97985	15.011	10.850	1.383	1.411	14.286
-5.6	-3.29354	3.97737	14.832	10.686	1.388	1.419	14.323
-5.4	-3.09388	3.97418	14.994	10.818	1.386	1.418	14.310
-5.2	-2.89438	3.96968	15.543	11.255	1.381	1.406	14.242
-5.0	-2.69510	3.96303	16.554	12.127	1.365	1.386	14.127
-4.8	-2.49620	3.95303	18.211	13.538	1.345	1.358	13.967
-4.6	-2.29786	3.93795	20.789	15.738	1.321	1.325	13.773
-4.4	-2.10036	3.91535	24.648	18.988	1.298	1.291	13.555
-4.2	-1.90408	3.88199	30.155	23.605	1.277	1.259	13.328
-4.0	-1.70948	3.83397	37.662	29.757	1.266	1.232	13.104
-3.8	-1.51710	3.76727	47.136	37.330	1.263	1.211	12.877
-3.6	-1.32743	3.67880	57.967	45.755	1.267	1.195	12.643
-3.4	-1.14074	3.56772	68.888	53.974	1.276	1.185	12.394
-3.2	-.95702	3.43645	78.141	60.658	1.288	1.177	12.126
-3.0	-.77586	3.29056	84.181	64.801	1.299	1.172	11.842
-2.8	-.59654	3.13755	86.166	65.954	1.306	1.169	11.548
-2.6	-.41816	2.98516	84.161	64.327	1.308	1.168	11.256
-2.4	-.23982	2.83997	79.020	60.541	1.305	1.167	10.977
-2.2	-.06071	2.70658	71.880	55.365	1.298	1.168	10.719
-2.0	.11976	2.58759	63.825	49.526	1.289	1.170	10.488
-1.8	.30201	2.48392	55.699	43.576	1.278	1.172	10.287
-1.6	.48622	2.39523	48.061	37.904	1.268	1.176	10.117
-1.4	.67244	2.32043	41.226	32.732	1.259	1.180	9.976
-1.2	.86059	2.25799	35.310	28.175	1.253	1.186	9.865
-1.0	1.05051	2.20621	30.309	24.257	1.249	1.193	9.779
-.8	1.24199	2.16334	26.170	20.964	1.248	1.200	9.715
-.6	1.43478	2.12772	22.818	18.260	1.250	1.209	9.669
-.4	1.62861	2.09771	20.184	16.099	1.254	1.218	9.638
-.2	1.82320	2.07170	18.203	14.451	1.260	1.228	9.616
-.0	2.01821	2.04804	16.844	13.293	1.267	1.237	9.596
.2	2.21329	2.02497	16.112	12.627	1.276	1.245	9.571
.4	2.40802	2.00056	16.007	12.457	1.285	1.250	9.532
.6	2.60196	1.97283	16.526	12.772	1.294	1.252	9.474
.8	2.79466	1.93996	17.620	13.511	1.304	1.252	9.395
1.0	2.98583	1.90091	19.087	14.522	1.314	1.251	9.297
1.2	3.17548	1.85614	20.625	15.565	1.325	1.252	9.191
1.4	3.36410	1.80815		16.378		1.257	9.087
1.6	3.55279	1.76165		16.766		1.265	9.001
1.8	3.74323	1.72333		16.686		1.281	8.956
2.0	3.93751	1.70074	20.833	16.269	1.316	1.291	8.935

Table 1 Continued

T = 14,000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.48775	4.00189	25.562	20.413	1.252	1.245	13.504
-6.6	-4.28859	3.99421	20.429	15.725	1.299	1.295	13.762
-6.4	-4.08915	3.98908	17.134	12.686	1.351	1.348	14.033
-6.2	-3.88953	3.98551	15.021	10.740	1.399	1.398	14.284
-6.0	-3.68983	3.98282	13.751	9.548	1.440	1.439	14.486
-5.8	-3.49009	3.98046	13.042	8.888	1.467	1.468	14.626
-5.6	-3.29036	3.97798	12.739	8.583	1.484	1.483	14.697
-5.4	-3.09069	3.97492	12.822	8.625	1.487	1.484	14.695
-5.2	-2.89115	3.97070	13.245	8.991	1.473	1.472	14.627
-5.0	-2.69183	3.96453	14.145	9.740	1.452	1.447	14.492
-4.8	-2.49284	3.95531	15.624	11.012	1.419	1.411	14.296
-4.6	-2.29437	3.94140	17.962	13.022	1.379	1.370	14.058
-4.4	-2.09667	3.92053	21.517	15.994	1.345	1.326	13.795
-4.2	-1.90011	3.88963	26.628	20.293	1.312	1.286	13.531
-4.0	-1.70513	3.84491	33.678	26.079	1.291	1.252	13.274
-3.8	-1.51226	3.78231	42.707	33.384	1.279	1.226	13.029
-3.6	-1.32200	3.69844	53.288	41.684	1.278	1.207	12.784
-3.4	-1.13469	3.59192	64.272	50.037	1.284	1.194	12.528
-3.2	-.95038	3.46445	74.036	57.177	1.295	1.184	12.257
-3.0	-.76874	3.32103	80.842	61.949	1.305	1.178	11.969
-2.8	-.58911	3.16891	83.815	63.870	1.312	1.174	11.673
-2.6	-.41061	3.01587	82.783	62.954	1.315	1.172	11.376
-2.4	-.23231	2.86883	78.431	59.767	1.312	1.171	11.091
-2.2	-.05341	2.73281	71.853	55.032	1.306	1.171	10.825
-2.0	.12675	2.61079	64.142	49.492	1.296	1.173	10.587
-1.8	.30862	2.50400	56.208	43.735	1.285	1.175	10.376
-1.6	.49242	2.41233	48.628	38.164	1.274	1.178	10.198
-1.4	.67823	2.33481	41.787	33.032	1.265	1.182	10.050
-1.2	.86600	2.26997	35.831	28.479	1.258	1.187	9.933
-1.0	1.05558	2.21612	30.764	24.538	1.254	1.194	9.841
-.8	1.24675	2.17154	26.557	21.218	1.252	1.201	9.771
-.6	1.43928	2.13453	23.133	18.474	1.252	1.209	9.721
-.4	1.63291	2.10343	20.427	16.267	1.256	1.219	9.687
-.2	1.82734	2.07663	18.375	14.571	1.261	1.228	9.661
-.0	2.02226	2.05249	16.941	13.359	1.268	1.237	9.640
.2	2.21732	2.02925	16.122	12.630	1.276	1.244	9.615
.4	2.41210	2.00501	15.921	12.388	1.285	1.250	9.578
.6	2.60616	1.97779	16.345	12.629	1.294	1.252	9.522
.8	2.79907	1.94575	17.343	13.301	1.304	1.253	9.447
1.0	2.99050	1.90776	18.753	14.266	1.315	1.253	9.354
1.2	3.18044	1.86403	20.271	15.301	1.325	1.253	9.248
1.4	3.36932	1.81691		16.145		1.257	9.146
1.6	3.55818	1.77092		16.596		1.266	9.061
1.8	3.74868	1.73262		16.593		1.281	9.015
2.0	3.94284	1.70947	20.833	16.260	1.316	1.289	8.982

Table 1 Continued

T = 14, 100

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.48423	4.00589	25.802	20.448	1.262	1.244	13.556
-6.6	-4.28521	3.99683	19.831	14.974	1.324	1.302	13.853
-6.4	-4.08587	3.99079	15.935	11.413	1.396	1.368	14.189
-6.2	-3.88632	3.98666	13.477	9.101	1.481	1.435	14.526
-6.0	-3.68665	3.98363	11.923	7.666	1.555	1.496	14.823
-5.8	-3.48692	3.98110	11.035	6.842	1.613	1.543	15.047
-5.6	-3.28720	3.97859	10.596	6.434	1.647	1.570	15.177
-5.4	-3.08752	3.97563	10.575	6.392	1.654	1.576	15.201
-5.2	-2.88796	3.97165	10.896	6.665	1.635	1.563	15.128
-5.0	-2.68858	3.96591	11.677	7.312	1.597	1.531	14.960
-4.8	-2.48952	3.95738	12.993	8.462	1.535	1.484	14.713
-4.6	-2.29093	3.94453	15.141	10.235	1.479	1.427	14.407
-4.4	-2.09306	3.92525	18.409	13.027	1.413	1.370	14.079
-4.2	-1.89624	3.89662	23.124	16.983	1.362	1.318	13.762
-4.0	-1.70091	3.85497	29.719	22.478	1.322	1.276	13.467
-3.8	-1.50757	3.79627	38.339	29.432	1.303	1.243	13.192
-3.6	-1.31675	3.71687	48.612	37.584	1.293	1.220	12.930
-3.4	-1.12883	3.61490	59.663	46.020	1.296	1.204	12.666
-3.2	-.94393	3.49139	69.799	53.569	1.303	1.192	12.390
-3.0	-.76179	3.35072	77.449	59.033	1.312	1.185	12.099
-2.8	-.58181	3.19978	81.349	61.667	1.319	1.180	11.799
-2.6	-.40314	3.04639	81.266	61.490	1.322	1.177	11.498
-2.4	-.22487	2.89775	77.690	58.878	1.320	1.175	11.206
-2.2	-.04614	2.75925	71.702	54.612	1.313	1.175	10.933
-2.0	.13374	2.63430	64.373	49.391	1.303	1.176	10.686
-1.8	.31524	2.52444	56.638	43.833	1.292	1.177	10.467
-1.6	.49864	2.42979	49.162	38.376	1.281	1.180	10.282
-1.4	.68405	2.34952	42.331	33.301	1.271	1.184	10.127
-1.2	.87144	2.28224	36.339	28.763	1.263	1.189	10.001
-1.0	1.06066	2.22630	31.211	24.813	1.258	1.195	9.902
-.8	1.25152	2.17996	26.945	21.464	1.255	1.202	9.828
-.6	1.44379	2.14151	23.456	18.688	1.255	1.210	9.774
-.4	1.63721	2.10929	20.685	16.448	1.258	1.219	9.736
-.2	1.83148	2.08166	18.571	14.705	1.263	1.228	9.708
-.0	2.02630	2.05699	17.072	13.449	1.269	1.237	9.685
.2	2.22132	2.03354	16.178	12.670	1.277	1.245	9.660
.4	2.41614	2.00942	15.905	12.373	1.285	1.250	9.623
.6	2.61032	1.98268	16.253	12.561	1.294	1.253	9.571
.8	2.80343	1.95143	17.184	13.188	1.303	1.254	9.497
1.0	2.99512	1.91444	18.558	14.134	1.313	1.253	9.406
1.2	3.18533	1.87181	20.088	15.180	1.323	1.254	9.303
1.4	3.37447	1.82558		16.070		1.258	9.201
1.6	3.56353	1.78014		16.592		1.266	9.117
1.8	3.75410	1.74191		16.665		1.280	9.068
2.0	3.94815	1.71822	20.833	16.411	1.316	1.286	9.027

Table 1 Continued

T = 14,200

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.48065	4.01057	31.419	25.812	1.217	1.213	13.441
-6.6	-4.28181	3.99988	24.453	19.462	1.256	1.259	13.672
-6.4	-4.08258	3.99279	19.910	15.275	1.303	1.311	13.939
-6.2	-3.88310	3.98798	16.961	12.573	1.349	1.363	14.207
-6.0	-3.68348	3.98455	15.146	10.875	1.393	1.410	14.445
-5.8	-3.48378	3.98180	14.045	9.859	1.425	1.447	14.626
-5.6	-3.28406	3.97922	13.498	9.310	1.450	1.471	14.745
-5.4	-3.08438	3.97632	13.319	9.149	1.456	1.480	14.785
-5.2	-2.88479	3.97253	13.541	9.326	1.452	1.477	14.759
-5.0	-2.68538	3.96717	14.186	9.859	1.439	1.458	14.655
-4.8	-2.48624	3.95926	15.368	10.855	1.416	1.428	14.489
-4.6	-2.28755	3.94738	17.279	12.476	1.385	1.389	14.268
-4.4	-2.08952	3.92955	20.202	14.955	1.351	1.346	14.014
-4.2	-1.89246	3.90300	24.513	18.580	1.319	1.305	13.750
-4.0	-1.69679	3.86423	30.586	23.603	1.296	1.268	13.489
-3.8	-1.50302	3.80921	38.598	30.125	1.281	1.239	13.236
-3.6	-1.31167	3.73414	48.376	37.854	1.278	1.217	12.988
-3.4	-1.12315	3.63669	59.080	46.087	1.282	1.201	12.735
-3.2	-.93765	3.51725	69.240	53.621	1.291	1.190	12.468
-3.0	-.75500	3.37956	77.183	59.276	1.302	1.183	12.184
-2.8	-.57464	3.23011	81.615	62.260	1.311	1.178	11.887
-2.6	-.39578	3.07667	82.099	62.408	1.316	1.175	11.586
-2.4	-.21749	2.92666	79.000	60.081	1.315	1.174	11.293
-2.2	-.03890	2.78587	73.296	55.966	1.310	1.173	11.017
-2.0	.14071	2.65809	66.079	50.791	1.301	1.174	10.764
-1.8	.32186	2.54520	58.320	45.194	1.290	1.175	10.540
-1.6	.50488	2.44759	50.727	39.637	1.280	1.178	10.348
-1.4	.68989	2.36456	43.730	34.435	1.270	1.182	10.187
-1.2	.87689	2.29482	37.540	29.749	1.262	1.187	10.055
-1.0	1.06576	2.23674	32.243	25.663	1.256	1.193	9.952
-.8	1.25631	2.18860	27.803	22.181	1.253	1.200	9.874
-.6	1.44831	2.14868	24.163	19.282	1.253	1.208	9.816
-.4	1.64151	2.11528	21.250	16.929	1.255	1.216	9.773
-.2	1.83562	2.08678	19.008	15.088	1.260	1.226	9.745
-.0	2.03033	2.06154	17.391	13.733	1.266	1.235	9.722
.2	2.22531	2.03782	16.384	12.857	1.274	1.243	9.697
.4	2.42015	2.01378	15.990	12.465	1.283	1.249	9.663
.6	2.61444	1.98744	16.219	12.556	1.292	1.252	9.613
.8	2.80772	1.95693	17.036	13.097	1.301	1.253	9.543
1.0	2.99965	1.92094	18.320	13.974	1.311	1.253	9.455
1.2	3.19015	1.87934	19.813	14.991	1.322	1.254	9.356
1.4	3.37955	1.83404		15.891		1.258	9.256
1.6	3.56880	1.78919		16.458		1.266	9.170
1.8	3.75946	1.75109		16.599		1.279	9.119
2.0	3.95341	1.72689	20.833	16.427	1.316	1.282	9.067

Table 1 Continued

T = 14,300

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.47702	4.01600	34.094	28.181	1.210	1.199	13.419
-6.6	-4.27838	4.00344	26.057	20.854	1.250	1.242	13.634
-6.4	-4.07928	3.99512	20.746	15.990	1.298	1.292	13.890
-6.2	-3.87989	3.98952	17.309	12.825	1.350	1.344	14.160
-6.0	-3.68032	3.98559	15.127	10.816	1.399	1.394	14.413
-5.8	-3.48065	3.98258	13.815	9.592	1.440	1.435	14.616
-5.6	-3.28094	3.97988	13.089	8.911	1.469	1.463	14.755
-5.4	-3.08126	3.97699	12.814	8.637	1.484	1.478	14.824
-5.2	-2.88165	3.97337	12.932	8.713	1.484	1.476	14.810
-5.0	-2.68220	3.96834	13.464	9.152	1.471	1.462	14.729
-4.8	-2.48301	3.96097	14.495	10.025	1.446	1.435	14.577
-4.6	-2.28422	3.94997	16.207	11.486	1.411	1.398	14.371
-4.4	-2.08604	3.93346	18.876	13.744	1.373	1.356	14.123
-4.2	-1.88876	3.90884	22.847	17.077	1.338	1.314	13.859
-4.0	-1.69279	3.87273	28.476	21.756	1.309	1.276	13.593
-3.8	-1.49861	3.82118	36.023	27.919	1.290	1.245	13.338
-3.6	-1.30675	3.75028	45.411	35.389	1.283	1.222	13.089
-3.4	-1.11765	3.65729	55.935	43.516	1.285	1.205	12.836
-3.2	-.93156	3.54200	66.237	51.220	1.293	1.193	12.571
-3.0	-.74837	3.40750	74.674	57.288	1.303	1.185	12.289
-2.8	-.56762	3.25983	79.838	60.834	1.312	1.180	11.992
-2.6	-.38852	3.10663	81.133	61.565	1.318	1.177	11.691
-2.4	-.21018	2.95550	78.761	59.759	1.318	1.175	11.395
-2.2	-.03170	2.81260	73.584	56.033	1.313	1.174	11.112
-2.0	.14767	2.68211	66.717	51.118	1.305	1.175	10.854
-1.8	.32849	2.56627	59.135	45.668	1.295	1.176	10.623
-1.6	.51113	2.46570	51.585	40.179	1.284	1.178	10.424
-1.4	.69575	2.37991	44.555	34.983	1.274	1.182	10.257
-1.2	.88236	2.30768	38.302	30.275	1.265	1.187	10.119
-1.0	1.07088	2.24743	32.909	26.139	1.259	1.192	10.010
-.8	1.26111	2.19746	28.369	22.599	1.255	1.199	9.925
-.6	1.45284	2.15601	24.631	19.637	1.254	1.207	9.863
-.4	1.64581	2.12141	21.627	17.221	1.256	1.215	9.818
-.2	1.83975	2.09200	19.300	15.316	1.260	1.224	9.786
-.0	2.03435	2.06614	17.597	13.897	1.266	1.234	9.762
.2	2.22927	2.04211	16.499	12.955	1.274	1.241	9.736
.4	2.42413	2.01808	16.014	12.491	1.282	1.248	9.704
.6	2.61850	1.99210	16.145	12.509	1.291	1.252	9.656
.8	2.81195	1.96227	16.870	12.979	1.300	1.253	9.590
1.0	3.00412	1.92719	18.081	13.803	1.310	1.254	9.506
1.2	3.19488	1.88665	19.544	14.797	1.321	1.255	9.409
1.4	3.38454	1.84227		15.713		1.258	9.311
1.6	3.57399	1.79804		16.326		1.266	9.226
1.8	3.76472	1.76008		16.536		1.278	9.173
2.0	3.95859	1.73540	20.833	16.445	1.316	1.278	9.108

Table 1 Continued

T = 14, 400

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.47331	4.02230	37.875	31.607	1.198	1.187	13.407
-6.6	-4.27490	4.00759	28.624	23.198	1.234	1.226	13.602
-6.4	-4.07596	3.99783	22.458	17.564	1.279	1.274	13.846
-6.2	-3.87667	3.99130	18.441	13.871	1.329	1.326	14.114
-6.0	-3.67716	3.98679	15.879	11.508	1.380	1.377	14.379
-5.8	-3.47753	3.98344	14.301	10.045	1.424	1.421	14.598
-5.6	-3.27784	3.98058	13.395	9.199	1.456	1.453	14.759
-5.4	-3.07815	3.97767	12.989	8.807	1.475	1.473	14.851
-5.2	-2.87854	3.97417	12.990	8.785	1.479	1.475	14.859
-5.0	-2.67906	3.96942	13.415	9.122	1.471	1.465	14.797
-4.8	-2.47981	3.96255	14.308	9.879	1.448	1.442	14.666
-4.6	-2.28093	3.95234	15.850	11.185	1.417	1.407	14.469
-4.4	-2.08262	3.93703	18.271	13.237	1.380	1.366	14.230
-4.2	-1.88514	3.91417	21.907	16.299	1.344	1.323	13.964
-4.0	-1.68889	3.88055	27.128	20.641	1.314	1.284	13.699
-3.8	-1.49433	3.83228	34.215	26.441	1.294	1.252	13.441
-3.6	-1.30198	3.76537	43.162	33.597	1.285	1.227	13.191
-3.4	-1.11232	3.67677	53.409	41.563	1.285	1.209	12.938
-3.2	-.92564	3.56570	63.761	49.338	1.292	1.196	12.674
-3.0	-.74191	3.43457	72.565	55.721	1.302	1.188	12.393
-2.8	-.56073	3.28894	78.373	59.745	1.312	1.182	12.098
-2.6	-.38137	3.13629	80.401	61.003	1.318	1.178	11.795
-2.4	-.20294	2.98428	78.706	59.662	1.319	1.176	11.496
-2.2	-.02455	2.83946	74.034	56.296	1.315	1.175	11.209
-2.0	.15461	2.70638	67.493	51.619	1.308	1.175	10.944
-1.8	.33512	2.58765	60.075	46.298	1.298	1.177	10.707
-1.6	.51739	2.48415	52.567	40.856	1.287	1.179	10.500
-1.4	.70163	2.39558	45.499	35.651	1.276	1.182	10.326
-1.2	.88786	2.32084	39.155	30.895	1.267	1.186	10.182
-1.0	1.07602	2.25839	33.651	26.696	1.260	1.192	10.067
-.8	1.26593	2.20654	29.005	23.085	1.256	1.198	9.978
-.6	1.45738	2.16354	25.163	20.051	1.255	1.206	9.911
-.4	1.65012	2.12769	22.065	17.565	1.256	1.214	9.864
-.2	1.84388	2.09733	19.639	15.590	1.260	1.223	9.828
-.0	2.03836	2.07081	17.844	14.103	1.265	1.232	9.802
.2	2.23321	2.04642	16.658	13.090	1.273	1.240	9.776
.4	2.42807	2.02235	16.076	12.553	1.281	1.247	9.744
.6	2.62252	1.99666	16.113	12.496	1.290	1.252	9.701
.8	2.81612	1.96745	16.745	12.894	1.299	1.254	9.637
1.0	3.00851	1.93327	17.875	13.665	1.308	1.254	9.555
1.2	3.19954	1.89373	19.296	14.632	1.319	1.255	9.462
1.4	3.38946	1.85029		15.560		1.259	9.366
1.6	3.57911	1.80672		16.221		1.266	9.282
1.8	3.76994	1.76898		16.498		1.278	9.227
2.0	3.96372	1.74381	20.833	16.496	1.316	1.275	9.150

Table 1 Continued

T = 14,500

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.46952	4.02956	42.000	35.320	1.189	1.176	13.403
-6.6	-4.27138	4.01239	31.427	25.742	1.221	1.212	13.579
-6.4	-4.07261	4.00097	24.322	19.258	1.263	1.257	13.809
-6.2	-3.87344	3.99336	19.648	14.978	1.312	1.308	14.072
-6.0	-3.67400	3.98817	16.651	12.216	1.363	1.360	14.341
-5.8	-3.47442	3.98440	14.775	10.486	1.409	1.408	14.583
-5.6	-3.27475	3.98133	13.675	9.457	1.446	1.444	14.764
-5.4	-3.07507	3.97836	13.127	8.935	1.469	1.467	14.874
-5.2	-2.87545	3.97494	13.016	8.806	1.478	1.475	14.912
-5.0	-2.67594	3.97043	13.317	9.045	1.472	1.469	14.871
-4.8	-2.47664	3.96400	14.082	9.688	1.454	1.448	14.754
-4.6	-2.27769	3.95450	15.453	10.848	1.424	1.416	14.572
-4.4	-2.07925	3.94029	17.643	12.706	1.389	1.376	14.339
-4.2	-1.88160	3.91905	20.970	15.508	1.352	1.333	14.075
-4.0	-1.68508	3.88773	25.799	19.524	1.321	1.294	13.809
-3.8	-1.49016	3.84254	32.423	24.956	1.299	1.260	13.549
-3.6	-1.29735	3.77945	40.916	31.777	1.288	1.233	13.294
-3.4	-1.10715	3.69514	50.846	39.532	1.286	1.214	13.040
-3.2	-.91989	3.58829	61.148	47.317	1.292	1.200	12.777
-3.0	-.73561	3.46069	70.247	53.953	1.302	1.190	12.498
-2.8	-.55399	3.31736	76.626	58.419	1.312	1.184	12.204
-2.6	-.37433	3.16551	79.349	60.185	1.318	1.180	11.901
-2.4	-.19579	3.01290	78.340	59.325	1.321	1.177	11.598
-2.2	-.01745	2.86636	74.232	56.344	1.317	1.176	11.307
-2.0	.16152	2.73083	68.059	51.936	1.310	1.176	11.036
-1.8	.34174	2.60928	60.845	46.775	1.301	1.177	10.792
-1.6	.52366	2.50290	53.420	41.408	1.290	1.180	10.580
-1.4	.70752	2.41155	46.333	36.216	1.279	1.182	10.398
-1.2	.89337	2.33428	39.916	31.435	1.270	1.187	10.248
-1.0	1.08117	2.26960	34.331	27.189	1.263	1.192	10.126
-.8	1.27076	2.21583	29.586	23.518	1.258	1.198	10.032
-.6	1.46193	2.17124	25.655	20.423	1.256	1.205	9.961
-.4	1.65444	2.13410	22.463	17.873	1.257	1.213	9.909
-.2	1.84801	2.10275	19.951	15.836	1.260	1.222	9.872
-.0	2.04235	2.07553	18.070	14.285	1.265	1.231	9.843
.2	2.23713	2.05074	16.799	13.207	1.272	1.240	9.818
.4	2.43198	2.02658	16.126	12.600	1.280	1.246	9.787
.6	2.62650	2.00113	16.065	12.467	1.289	1.251	9.743
.8	2.82024	1.97249	16.602	12.792	1.298	1.254	9.683
1.0	3.01283	1.93915	17.654	13.501	1.308	1.255	9.605
1.2	3.20411	1.90060	19.016	14.436	1.317	1.256	9.514
1.4	3.39429	1.85810		15.365		1.259	9.419
1.6	3.58415	1.81520		16.062		1.266	9.335
1.8	3.77508	1.77769		16.403		1.278	9.280
2.0	3.96878	1.75208	20.833	16.486	1.316		9.186

Table 1 Continued

T = 14,600

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.46564	4.03790	46.646	39.493	1.181	1.166	13.406
-6.6	-4.26779	4.01793	34.620	28.625	1.209	1.199	13.561
-6.4	-4.06923	4.00461	26.454	21.196	1.248	1.241	13.774
-6.2	-3.87020	3.99575	21.051	16.255	1.295	1.290	14.029
-6.0	-3.67085	3.98975	17.543	13.040	1.345	1.342	14.297
-5.8	-3.47131	3.98549	15.337	11.003	1.394	1.392	14.554
-5.6	-3.27168	3.98214	14.011	9.771	1.434	1.432	14.757
-5.4	-3.07201	3.97908	13.300	9.101	1.461	1.459	14.890
-5.2	-2.87238	3.97570	13.068	8.861	1.475	1.473	14.950
-5.0	-2.67285	3.97138	13.251	8.998	1.473	1.469	14.925
-4.8	-2.47351	3.96534	13.902	9.534	1.458	1.452	14.828
-4.6	-2.27448	3.95648	15.116	10.562	1.431	1.423	14.663
-4.4	-2.07594	3.94326	17.103	12.242	1.397	1.385	14.440
-4.2	-1.87812	3.92352	20.152	14.807	1.361	1.343	14.183
-4.0	-1.68136	3.89433	24.604	18.525	1.328	1.302	13.914
-3.8	-1.48610	3.85202	30.802	23.614	1.304	1.267	13.651
-3.6	-1.29286	3.79256	38.847	30.106	1.290	1.239	13.394
-3.4	-1.10214	3.71242	48.457	37.642	1.287	1.218	13.141
-3.2	-.91431	3.60979	58.665	45.404	1.292	1.203	12.878
-3.0	-.72948	3.48585	68.001	52.258	1.301	1.193	12.600
-2.8	-.54739	3.34504	74.902	57.132	1.311	1.186	12.308
-2.6	-.36742	3.19427	78.296	59.392	1.318	1.181	12.003
-2.4	-.18873	3.04131	77.988	59.015	1.322	1.179	11.698
-2.2	-.01041	2.89325	74.453	56.425	1.320	1.177	11.404
-2.0	.16840	2.75543	68.661	52.292	1.313	1.177	11.128
-1.8	.34835	2.63115	61.660	47.297	1.304	1.178	10.878
-1.6	.52994	2.52191	54.309	42.006	1.293	1.180	10.658
-1.4	.71342	2.42780	47.219	36.828	1.282	1.183	10.470
-1.2	.89890	2.34798	40.748	32.020	1.273	1.187	10.314
-1.0	1.08634	2.28104	35.067	27.723	1.265	1.191	10.186
-.8	1.27560	2.22534	30.221	23.993	1.260	1.197	10.086
-.6	1.46649	2.17912	26.186	20.831	1.257	1.204	10.010
-.4	1.65875	2.14066	22.900	18.217	1.257	1.212	9.954
-.2	1.85214	2.10828	20.300	16.117	1.260	1.221	9.913
-.0	2.04634	2.08032	18.341	14.505	1.264	1.230	9.883
.2	2.24104	2.05508	16.984	13.365	1.271	1.238	9.857
.4	2.43587	2.03078	16.236	12.696	1.279	1.245	9.826
.6	2.63043	2.00552	16.093	12.504	1.287	1.250	9.784
.8	2.82430	1.97740	16.554	12.773	1.296	1.253	9.727
1.0	3.01709	1.94486	17.548	13.440	1.306	1.255	9.652
1.2	3.20862	1.90725	18.884	14.358	1.315	1.256	9.563
1.4	3.39905	1.86568		15.303		1.259	9.470
1.6	3.58911	1.82349		16.047		1.265	9.386
1.8	3.78015	1.78626		16.455		1.276	9.329
2.0	3.97377	1.76020	20.833	16.619	1.316		9.220

Table 1 Continued

T = 14,700

Log ρ	Log p	Z	C_p/R	C_v/R	γ	γ_E	a/a_a
-6.8	-4.46165	4.04744	51.827	44.115	1.175	1.157	13.417
-6.6	-4.26414	4.02430	38.213	31.869	1.199	1.187	13.549
-6.4	-4.06581	4.00881	28.872	23.404	1.234	1.226	13.744
-6.2	-3.86693	3.99850	22.647	17.715	1.278	1.273	13.988
-6.0	-3.66769	3.99156	18.584	13.987	1.329	1.325	14.256
-5.8	-3.46821	3.98672	15.995	11.605	1.378	1.374	14.513
-5.6	-3.26861	3.98304	14.4C8	10.137	1.421	1.419	14.738
-5.4	-3.06896	3.97982	13.521	9.305	1.453	1.450	14.894
-5.2	-2.86933	3.97645	13.152	8.946	1.470	1.467	14.972
-5.0	-2.66979	3.97229	13.226	8.982	1.472	1.468	14.972
-4.8	-2.47041	3.96658	13.754	9.414	1.461	1.455	14.895
-4.6	-2.27132	3.95830	14.829	10.316	1.437	1.429	14.744
-4.4	-2.07267	3.94599	16.629	11.833	1.405	1.393	14.536
-4.2	-1.87470	3.92761	19.413	14.181	1.369	1.352	14.286
-4.0	-1.67772	3.90040	23.530	17.619	1.336	1.311	14.019
-3.8	-1.48215	3.86079	29.309	22.384	1.309	1.274	13.750
-3.6	-1.28850	3.80480	:36.928	28.552	1.293	1.245	13.493
-3.4	-1.09727	3.72869	46.186	35.855	1.288	1.223	13.239
-3.2	-.90889	3.63027	56.281	43.563	1.292	1.207	12.978
-3.0	-.72351	3.51009	65.794	50.591	1.300	1.196	12.702
-2.8	-.54094	3.37201	73.164	55.837	1.310	1.188	12.410
-2.6	-.36063	3.22258	77.233	58.580	1.318	1.183	12.106
-2.4	-.18176	3.06953	77.576	58.676	1.322	1.180	11.799
-2.2	-.00342	2.92017	74.621	56.483	1.321	1.178	11.501
-2.0	.17525	2.78019	69.229	52.638	1.315	1.178	11.219
-1.8	.35495	2.65328	62.467	47.819	1.306	1.179	10.964
-1.6	.53621	2.54123	55.212	42.614	1.296	1.180	10.736
-1.4	.71934	2.44436	48.122	37.454	1.285	1.183	10.542
-1.2	.90445	2.36198	41.596	32.624	1.275	1.186	10.379
-1.0	1.09153	2.29276	35.817	28.278	1.267	1.191	10.245
-.8	1.28046	2.23508	30.879	24.485	1.261	1.197	10.141
-.6	1.47106	2.18719	26.739	21.257	1.258	1.204	10.059
-.4	1.66308	2.14738	23.360	18.574	1.258	1.212	10.000
-.2	1.85626	2.11394	20.668	16.409	1.260	1.220	9.955
-.0	2.05032	2.08520	18.619	14.731	1.264	1.228	9.923
.2	2.24493	2.05948	17.179	13.525	1.270	1.237	9.895
.4	2.43973	2.03500	16.336	12.787	1.278	1.244	9.866
.6	2.63434	2.00988	16.103	12.521	1.286	1.250	9.827
.8	2.82833	1.98223	16.472	12.719	1.295	1.253	9.772
1.0	3.02131	1.95045	17.380	13.326	1.304	1.255	9.699
1.2	3.21307	1.91381	18.658	14.202	1.314	1.256	9.613
1.4	3.40375	1.87319		15.141		1.259	9.521
1.6	3.59403	1.83171		15.916		1.265	9.438
1.8	3.78518	1.79480		16.382			9.382
2.0	3.97873	1.76830	20.833	16.633	1.316		9.253

Table 1 Continued

T = 14,800

Log ρ	Log p	Z	C_p/R	C_V/R	γ	γ_E	a/a_a
−6.8	−4.45754	4.05829				1.150	13.437
−6.6	−4.26041	4.03161				1.177	13.549
−6.4	−4.06234	4.01365				1.212	13.722
−6.2	−3.86364	4.00168				1.257	13.951
−6.0	−3.66451	3.99365				1.307	14.215
−5.8	−3.46512	3.98813				1.358	14.480
−5.6	−3.26556	3.98404				1.405	14.718
−5.4	−3.06593	3.98062				1.440	14.894
−5.2	−2.86631	3.97721				1.462	14.999
−5.0	−2.66675	3.97316				1.468	15.025
−4.8	−2.46734	3.96774				1.458	14.964
−4.6	−2.26819	3.95998				1.435	14.831
−4.4	−2.06945	3.94849				1.401	14.632
−4.2	−1.87134	3.93137				1.361	14.389
−4.0	−1.67415	3.90598				1.320	14.125
−3.8	−1.47830	3.86890				1.282	13.857
−3.6	−1.28426	3.81618				1.252	13.596
−3.4	−1.09255	3.74398				1.228	13.338
−3.2	−.90362	3.64972				1.211	13.078
−3.0	−.71769	3.53338				1.199	12.803
−2.8	−.53463	3.39821				1.191	12.513
−2.6	−.35395	3.25037				1.185	12.210
−2.4	−.17488	3.09748				1.182	11.902
−2.2	.00350	2.94704				1.180	11.599
−2.0	.18206	2.80507				1.179	11.313
−1.8	.36154	2.67562				1.179	11.051
−1.6	.54249	2.56081				1.181	10.817
−1.4	.72526	2.46120				1.183	10.615
−1.2	.91001	2.37625				1.187	10.446
−1.0	1.09673	2.30472				1.191	10.307
−.8	1.28534	2.24503				1.197	10.196
−.6	1.47564	2.19545				1.203	10.110
−.4	1.66741	2.15425				1.211	10.047
−.2	1.86039	2.11970				1.219	10.000
−.0	2.05429	2.09015				1.227	9.964
.2	2.24880	2.06389				1.236	9.936
.4	2.44357	2.03918				1.244	9.907
.6	2.63821	2.01415				1.249	9.868
.8	2.83230	1.98692				1.253	9.815
1.0	3.02545	1.95584				1.255	9.746
1.2	3.21744	1.92008				1.257	9.663
1.4	3.40836	1.88037				1.259	9.573
1.6	3.59885	1.83964				1.265	9.490
1.8	3.79012	1.80302					9.433
2.0	3.98359	1.77614					9.284

Table 1 Continued

T = 14,900

Log ρ	Log p	Z	C_p/R	C_V/R	γ	$γ_E$	a/a_a
-6.8	-4.45330	4.07058				1.143	13.464
-6.6	-4.25658	4.03994				1.167	13.555
-6.4	-4.05882	4.01920				1.200	13.707
-6.2	-3.86032	4.00533				1.242	13.920
-6.0	-3.66133	3.99605				1.291	14.176
-5.8	-3.46202	3.98972				1.343	14.448
-5.6	-3.26251	3.98516				1.391	14.696
-5.4	-3.06292	3.98148				1.430	14.893
-5.2	-2.86330	3.97798				1.457	15.025
-5.0	-2.66373	3.97401				1.467	15.071
-4.8	-2.46430	3.96884				1.461	15.031
-4.6	-2.26510	3.96153				1.441	14.916
-4.4	-2.06628	3.95079				1.409	14.729
-4.2	-1.86804	3.93482				1.370	14.495
-4.0	-1.67066	3.91111				1.329	14.230
-3.8	-1.47453	3.87638				1.291	13.963
-3.6	-1.28013	3.82677				1.258	13.698
-3.4	-1.08797	3.75832				1.233	13.439
-3.2	-.89851	3.66815				1.215	13.176
-3.0	-.71204	3.55569				1.202	12.904
-2.8	-.52848	3.42360				1.193	12.615
-2.6	-.34741	3.27758				1.187	12.312
-2.4	-.16809	3.12512				1.183	12.004
-2.2	.01035	2.97380				1.181	11.698
-2.0	.18883	2.83000				1.180	11.407
-1.8	.36810	2.69812				1.180	11.138
-1.6	.54876	2.58062				1.181	10.899
-1.4	.73119	2.47829				1.184	10.691
-1.2	.91558	2.39077				1.187	10.514
-1.0	1.10195	2.31692				1.191	10.369
-.8	1.29022	2.25520				1.196	10.252
-.6	1.48023	2.20389				1.203	10.162
-.4	1.67175	2.16126				1.210	10.094
-.2	1.86452	2.12558				1.218	10.044
-.0	2.05826	2.09518				1.227	10.007
.2	2.25267	2.06836				1.235	9.976
.4	2.44739	2.04338				1.243	9.946
.6	2.64205	2.01840				1.248	9.908
.8	2.83623	1.99153				1.252	9.856
1.0	3.02955	1.96112				1.254	9.790
1.2	3.22176	1.92626				1.256	9.709
1.4	3.41292	1.88748				1.259	9.622
1.6	3.60362	1.84749				1.264	9.538
1.8	3.79503	1.81130					9.481
2.0	3.98842	1.78393					9.309

Table 1 Concluded

T = 15,000

Log ρ	Log p	Z	C_p/R	C_v/R	γ	$γ_E$	a/a_a
-6.8	-4.44892	4.08444				1.139	13.506
-6.6	-4.25266	4.04942				1.161	13.582
-6.4	-4.05523	4.02554				1.193	13.723
-6.2	-3.85696	4.00952				1.233	13.925
-6.0	-3.65812	3.99881				1.282	14.178
-5.8	-3.45891	3.99155				1.333	14.449
-5.6	-3.25947	3.98641				1.382	14.702
-5.4	-3.05991	3.98241				1.424	14.916
-5.2	-2.86030	3.97878				1.453	15.059
-5.0	-2.66073	3.97484				1.465	15.116
-4.8	-2.46128	3.96987				1.462	15.089
-4.6	-2.26203	3.96297				1.445	14.987
-4.4	-2.06314	3.95291				1.414	14.808
-4.2	-1.86478	3.93798				1.376	14.583
-4.0	-1.66723	3.91583				1.335	14.317
-3.8	-1.47085	3.88330				1.296	14.049
-3.6	-1.27611	3.83661				1.263	13.784
-3.4	-1.08351	3.77177				1.237	13.528
-3.2	-.89355	3.68560				1.217	13.266
-3.0	-.70653	3.57705				1.204	12.999
-2.8	-.52246	3.44818				1.195	12.714
-2.6	-.34099	3.30420				1.188	12.411
-2.4	-.16141	3.15240				1.184	12.101
-2.2	.01713	3.00044				1.182	11.793
-2.0	.19555	2.85498				1.180	11.497
-1.8	.37464	2.72079				1.181	11.224
-1.6	.55503	2.60065				1.182	10.979
-1.4	.73713	2.49564				1.184	10.765
-1.2	.92116	2.40555				1.187	10.581
-1.0	1.10718	2.32936				1.191	10.430
-.8	1.29512	2.26558				1.196	10.309
-.6	1.48483	2.21252				1.202	10.213
-.4	1.67609	2.16843				1.209	10.141
-.2	1.86865	2.13158				1.217	10.088
-.0	2.06223	2.10029				1.226	10.050
.2	2.25652	2.07287				1.234	10.016
.4	2.45119	2.04758				1.242	9.986
.6	2.64586	2.02260				1.248	9.949
.8	2.84012	1.99606				1.252	9.899
1.0	3.03359	1.96627				1.254	9.834
1.2	3.22601	1.93224				1.256	9.755
1.4	3.41741	1.89437				1.258	9.670
1.6	3.60832	1.85515				1.263	9.587
1.8	3.79983	1.81925					9.510
2.0	3.99317	1.79155					9.361